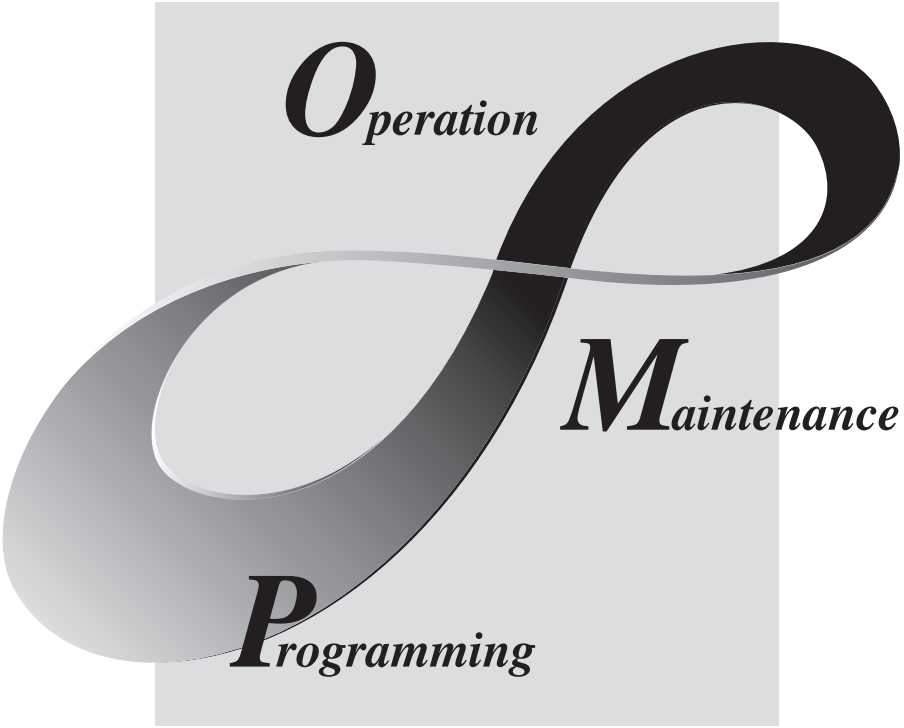
MX Component Version 3

Programming Manual

MITSUBISHI

MELSOFT



MELSOFT
Integrated FA Software

SW3D5C-ACT-E

• SAFETY PRECAUTIONS •

(Always read these instructions before using this equipment.)

Before using this product, please read this manual and the relevant manuals introduced in this manual carefully and pay full attention to safety to handle the product correctly.
The instructions given in this manual are concerned with this product. For the safety instructions of the programmable controller system, please read the CPU module user's manual.
In this manual, the safety instructions are ranked as "DANGER" and "CAUTION".

⚠ DANGER	Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
⚠ CAUTION	Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight personal injury or physical damage.

Note that the ⚠CAUTION level may lead to a serious consequence according to the circumstances. Always follow the instructions of both levels because they are important to personal safety.

Please save this manual to make it accessible when required and always forward it to the end user.

[Design Instructions]

⚠ DANGER

- When performing data changes or status control from the personal computer to the running PLC, configure up an interlock circuit outside the PLC system to ensure that the whole system will operate safely.
  In addition, predetermine corrective actions for the system so that you can take measures against any communication error caused by a cable connection fault or the like in online operations performed from the peripheral device to the PLC.

⚠ CAUTION

- Read the manual carefully before performing the online operations (especially forced output and operating status change) which will be executed with the personal computer connected to the running CPU module.
  Not doing so can damage the machine or cause an accident due to misoperation.

REVISIONS

* The manual number is given on the bottom left of the back cover.

Print Date	* Manual Number	Revision
Apr., 2002	SH (NA)-080272-A	First edition
Jun., 2002	SH (NA)-080272-B	[Correction] Operating Instructions
Dec., 2003	SH (NA)-080272-C	[Correction] Operating Instructions, Section 3.2, Section 3.3, Section 4.1, Section 6.1 [Addition] Generic Terms and Abbreviations, Section 1.1, Subsection 1.2.1, Section 3.1, Subsection 3.3.17, Subsection 4.2.9, Subsection 4.2.10, Subsection 4.2.11, Subsection 4.2.12, Subsection 4.2.14, Appendix 3.1
Jun., 2004	SH (NA)-080272-D	[Model Addition] Q12PRHCPU, Q25PRHCPU, FX3UCCPU [New Addition] Subsection 2.1.5, Subsection 5.1.3, Section 5.6, Section 5.7 [Correction] Subsection 4.3.17 [Addition] Generic Terms and Abbreviations, Section 2.2, Section 3.2, Section 3.3, Section 4.1, Section 4.2, Chapter 5, Section 6.1
Aug., 2004	SH (NA)-080272-E	[Correction] Operating Instructions [Addition] Section 2.3, Section 3.2, Subsection 3.3.26
Aug., 2005	SH (NA)-080272-F	[Model Addition] FX3UCPU [Addition] Generic Terms and Abbreviations, Section 3.2, Subsection 3.3.2, Subsection 3.3.3, Subsection 3.3.22, Subsection 3.3.23, Subsection 4.2.9, Subsection 4.2.10, Subsection 4.2.11, Subsection 4.2.12, Subsection 4.2.13, Subsection 4.2.14, Section 6.1
Nov., 2006	SH (NA)-080272-G	[Correction] Section 1.1, Section 4.1

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Print Date	* Manual Number	Revision
Oct., 2007	SH (NA)-080272-H	Model Addition Q02UCPU, Q03UDCPU, Q04UDHCPU, Q06UDHCPU New Addition Subsection 3.3.25, Subsection 5.8, Subsection 5.9 Addition Operating Instructions, Manuals, Generic Terms and Abbreviations, Section 1.1, Section 1.2, Subsection 2.1.5, Chapter 3, Subsection 4.2.9, Subsection 4.2.10, Subsection 4.2.11, Subsection 4.2.12, Subsection 4.2.13, Subsection 4.2.14, Chapter 5, Section 6.1, Section 6.2, Appendix 3
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Dec., 2008	SH (NA)-080272-K	Model Addition Q00UJCPU, Q00UCPU, Q01UCPU, Q10UDHCPU, Q10UDEHCPU, Q20UDHCPU, Q20UDEHCPU, FX3GCPU New Addition Subsection 3.3.20 Addition Operating Instructions, Section 1.1, Subsection 1.2.1, Section 3.1, Section 3.2, Subsection 3.3.10,Subsection 3.3.14, Subsection 3.3.15, Subsection 3.3.21, Subsection 4.2.9 to Subsection 4.2.14, Appendix 3

Japanese Manual Version SH-080275-K

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Operating Instructions

This section gives explanation of instructions in the following order.

1) Instructions for used OS and personal computer
2) Instructions for installation and uninstallation
3) PLC CPU-related instructions
4) Instructions for use of other MELSOFT products
5) Instructions for use of Ethernet modules
6) Instructions for use of CC-Link modules
7) Instructions for use of MELSECNET(II), MELSECNET/10 and MELSECNET/H
8) Instructions for use of computer link and serial communication modules
9) Instructions for modem communication
10) Instructions for programming
11) Instructions for use of Microsoft® Excel
12) Instructions for use of Microsoft® Access
13) Instructions for use of VBScript and ASP function

Instructions for used OS and personal computer

(1) When using Microsoft® Windows NT® Workstation Operating System Version 4.0, Microsoft® Windows® 2000 Professional Operating System, Microsoft® Windows® XP Professional and Microsoft® Windows® XP Home Edition, Microsoft® Windows Vista® Home Basic Operating System, Microsoft® Windows Vista® Home Premium Operating System, Microsoft® Windows Vista® Business Operating System, Microsoft® Windows Vista® Ultimate Operating System or Microsoft® Windows Vista® Enterprise Operating System

Note that the following restrictions apply when a user without Administrator's authority operates MX Component.

(a) Communication Setup Utility
- The logical station number cannot be created, changed or deleted.
- Target settings cannot be imported.
- This utility cannot be started up if the communication settings have been made using MX Component earlier than Version3.00A. *1

(b) PLC Monitor Utility
- This utility cannot be started up if the communication settings have been made using MX Component earlier than Version3.00A. *1
- Device registration cannot be performed on "Entry Device" tab.

(c) Communication board
- Various settings cannot be made on the CC-Link IE Controller Network, MELSECNET/H, MELSECNET/10, MELSECNET(II), CC-Link, AF and CPU board utilities.

*1: If the following error message appears, start up and close the utility as a user with Administrator's authority, once. This operation enables a user without Administrator's authority to start up the utility.

PLC Monitor Utility
Reading the system information data failed.
There is a possibility that the operating environment of the application is corrupt.
Re-install the application and try again.
OK

(2) About Ethernet communication, computer link communication and CPU COM communication on Microsoft® Windows® 95 Operating System

(a) Making Ethernet communication using TCP/IP and UDP/IP on Windows® 95 of the version older than OSR2 will cause a memory leak. When performing continuous operation on Windows® 95, use Window® 95 OSR2 or later.

(b) On Windows® 95, communication using the COM port, e.g. computer link communication or CPU COM communication, will cause a memory leak. Therefore, do not perform continuous operation.

(3) Precautions for use of Microsoft® Windows® Millennium Edition Operating System
It is not recommended to use MX Component with the "system restoring function" made invalid by the operating system.
If the free space of the system drive becomes less than 200MB, the "system restoring function" is made invalid by the operating system. When using Windows® Me, reserve a 200MB or more free space for the system drive.

(4) About the resume and other functions of personal computer
A communications error may occur if communications are made with the PLC CPU after setting the resume function, suspend setting, power-saving function and/or standby mode of the personal computer.
Therefore, do not set the above functions when making communications with the PLC CPU.

(5) Restrictions by DEP (Data Execution Prevention)
Note that restrictions by DEP may apply when using Microsoft® Windows® XP Service Pack2 or later, or Microsoft® Windows Vista® . For restrictions by DEP, refer to the following manual.
MX Component Version 3 Operating Manual

Instructions for installation and uninstallation

(1) About installation
(a) When performing overwrite installation, install the software in the folder where it had already been installed.
(b) If you install the MELSEC board driver or GX Developer into the personal computer where MX Component has already been installed, communication using a specific path (e.g. ASCII packet of the AJ71E71) may result in a receive, device number or other error.
If any of these phenomena has occurred, perform overwrite installation of MX Component again.

(2) Precautions for performing installation and uninstallation on a dual boot machine where two different operating systems are installed in a single IBM-PC/AT compatible personal computer

On a dual boot machine having Windows NT® Workstation 4.0 (hereafter referred to as OS1) and Windows® 95 or Windows® 98 (hereafter referred to as OS2), note the following points when MX Component was installed on OS1 first and MX Component was then installed over the same folder on OS2.
(a) If MX Component is uninstalled first on the OS2 side, uninstallation does not delete the control DLLs and ACT folders, and they remain within the IBM-PC/AT compatible.
To delete the control DLLs and ACT folders, perform uninstallation also on the OS1 side.
(b) If MX Component is uninstalled first on the OS1 side, the control DLLs and ACT folders are deleted.
In this case, MX Component may not operate properly or cannot be uninstalled on the OS2 side.
Install MX Component again on the OS2 side to operate MX Component properly or uninstall it on the OS2 side.

(3) About start menu
When you have uninstalled MX Component, the item may remain in the start menu.
In that case, restart the IBM-PC/AT compatible personal computer.

PLC CPU-related instructions

(1) About transmission speed
As the transmission speed of the QCPU(Q mode) and QCPU(A mode), you can set 9600bps, 19200bps, 38400bps, 57600bps or 11520bps.
For the QnACPU of version 9707B or later, you can set the transmission speed of 9600bps, 19200bps or 38400bps.
For the QnACPU of other versions, you can set 9600bps or 19200bps.
The transmission speeds of the ACPU (except A2USHCPU-S1), FXCPU and motion controller CPU are fixed to 9600bps. (The A2USHCPU-S1 may be set to 19200bps.)

(2) Precautions for USB communication
Frequently disconnecting/reconnecting the USB cable or resetting or powering ON/OFF the PLC CPU during communications with the PLC CPU may cause a communications error which cannot be recovered.
If it is not recovered, completely disconnect the USB cable once and then reconnect it after 5 or more seconds have elapsed.
(If this error occurs at the initial communication after the above operation, the function will be performed properly in and after the second communications.)

(3) About clock data of the PLC CPU
(a) For the ACPU (including the motion controller CPU), clock data setting may be made only when the PLC CPU is in the STOP status.
For the QCPU (Q mode), QCPU (A mode), QnACPU and FXCPU, clock data setting may be made if the PLC CPU is in the RUN status.
(b) For the A0J2HCPU, A2CCPU and A2CJCPU, setting cannot be made as they do not have the clock function.
(c) For the ACPU, setting can be made independently of whether the clock setting special relay "M9028" is ON or OFF. (Note that the special relay "M9028" turns OFF after execution.)
For the QCPU (Q mode), QCPU (A mode) and QnACPU, setting can be made independently of whether the clock setting device "SM1028" is ON or OFF.
(d) Among the FXCPUs, setting may be made for only the FX_{1N} (clock built-in), FX_{1NC} (clock built-in), FX_{1S} (clock built-in), FX_{2N} (clock built-in), FX_{2NC} (when RTC cassette is fitted), FX_{2} (when RTC cassette is fitted) and FX_{2C} (when RTC cassette is fitted). FX_{3G} (clock built-in).
(e) Note that an error for transfer time will be produced in clock setting.

(4) Precautions for use of Q4ARCPU
The duplexing function cannot be used.

(5) Restrictions on use of the FXCPU

(a) When the FXCPU is used, access to the TN devices (timer present values) or CN devices (counter present values) is not permitted if the device numbers specified are split across 199 or earlier and 200 or later.

(b) As the FXCPU does not have a PAUSE switch as the PLC CPU, an error is returned if remote pause is specified in SetCpuStatus.

(c) Note that specifying the first I/O number of a nonexisting module and executing the WriteBuffer( ) method will not return an error.

(d) For the index registers (Z, V) of the FXCPU, data cannot be written to 2 or more consecutive points using WriteDeviceBlock(). (Data may be written to only one point.)

(6) Serial communication function of Q00UJ/Q00/Q00U/Q01/Q01U/Q02U/CPU*1
*1: In this paragraph, "serial communication function compatible CPU" indicates Q00UJ/Q00/Q00U/Q01/Q01U/Q02UCPU.

When the following conditions are all satisfied, communication between the personal computer and the serial communication function compatible CPU is made at 9600bps speed.

1) The serial communication function of the connected CPU is valid.
2) The personal computer side transmission speed setting differs from the serial communication function compatible CPU side transmission speed setting.

To increase the communication speed, match the personal computer side transmission speed with the serial communication function compatible CPU side transmission speed.

(7) Precautions for use of Built-in Ethernet port QCPU
If you reset the PLC CPU during TCP/IP connection setting (during opening) using MX Component, a communication or receive error will occur at the time of communication after that. In that case, close the application that uses MX Component and then perform open processing again.

(8) Precautions for use of QSCPU
In order to protect the safety PLC system, functions writing to buffer memory, writing and setting devices and writing clock data cannot be executed.

Instructions for use of other MELSOFT products

(1) About simultaneous use of MX Component and GX Developer
When using GX Developer and MX Component together for the same E71 module to make Ethernet communication, make the following settings.

(a) Set the protocol of the communication setting wizard screen to "UDP/IP".

(b) Set "SW2" of the communications setting switches of the E71 module to OFF (binary).

(2) Precautions for GX Simulator communication
Before executing the monitor utility, communication setting utility or user program, make sure that GX Simulator and GX Developer are operating.
In addition, do not terminate the GX Simulator and GX Developer while the user program is running.
If you do so, you will not be able to terminate the user program normally.

Instructions for use of Ethernet modules

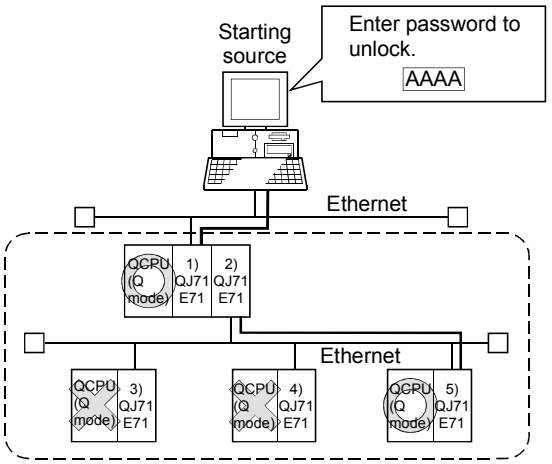
(1) Resetting PLC CPU during TCP/IP connection setting
If you reset the PLC CPU during TCP/IP connection setting (during opening) using MX Component, a communication or receive error will occur at the time of communication after that. In that case, close the application that uses MX Component and then perform open processing again.

(2) About target existence check starting interval*1 of Ethernet module
If close processing (Close) is executed from the IBM-PC/AT compatible, the Ethernet module may not perform close processing (Close).
One of its causes is the open cable.
If open processing (Open) is executed from the IBM-PC/AT compatible with the Ethernet module not performing close processing (Close), open processing (Open) from the IBM-PC/AT compatible is not terminated normally until the Ethernet module makes a target existence check and executes close processing (Close).
If you want to terminate open processing (Open) early from the IBM-PC/AT compatible, shorten the target existence check starting interval setting of the Ethernet module.
(The target existence check starting interval setting of the Ethernet module defaults to 10 minutes.)
*1: It can be set for the E71 of AJ71E71-S3 or later.

(3) Replacement of Ethernet module
If you changed the Ethernet module during Ethernet communication due to debugging, failure or like, the other node (IBM-PC/AT compatible) must be restarted.
(Since the Ethernet addresses (MAC addresses) differ between devices)

(4) Simultaneous access when using Q series-compatible Ethernet module
The following conditions should be satisfied when communication is to be made simultaneously from multiple IBM-PC/AT compatibles to the same module using the TCP/IP protocol.
- Q series-compatible E71 module (except QJ71E71-100) whose first five digits of the serial number is "02122" or later and whose function version is B or later.
- Using GX Developer Version 6.05F or later, set "MELSOFT connection" in the Ethernet parameter "open system".

(5) Unlocking password when using QJ71E71
The range where the password can be unlocked by remote operation is up to the connection target station.
If the password is set also on the lower layer, communication cannot be made with the PLC CPU on the lower layer.



No.	Remote Password
1)	With setting (AAAA)
2)	Without setting
3)	With setting (AAAA)
4)	With setting (BBBB)
5)	Without setting

○ : Accessible
× : Inaccessible

1) Unlocking QJ71E71 password enables access to PLC CPUs in this range.

(6) About use of the Q4ARCPU
When using the UDP/IP protocol of Ethernet communication, use the Q4ARCPU whose year and month of manufacture is "0012" or later and whose function version is B or later.

(7) About Ethernet communication

(a) When access is made to the QnACPU, AnUCPU, QCPU (A mode) or motion controller CPU via the E71, the device range is equivalent to that of the AnACPU.

(b) When making access to the PLC CPU through Ethernet communication, the functions may not be executed depending on the PLC CPU status.

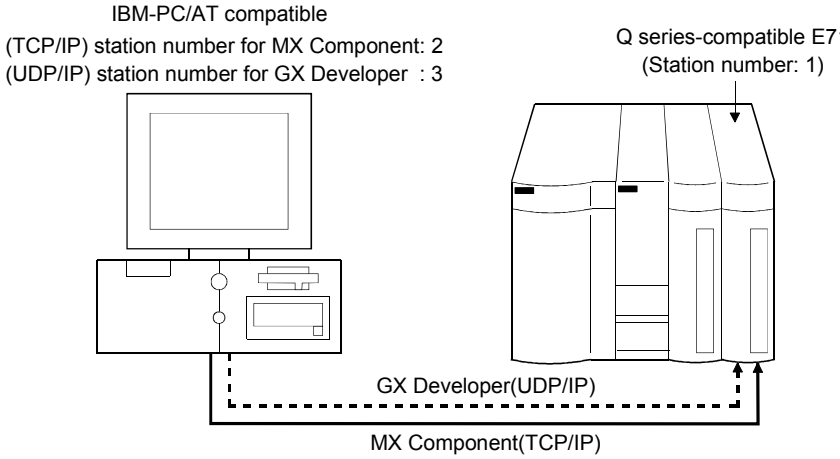
1) When the protocol is TCP/IP (target module: E71, QE71)
The functions can be executed only when the communication target PLC CPU is in the RUN mode.
An error is returned if the PLC CPU is in other than the RUN mode.

2) When the protocol is UDP/IP (target module: E71, QE71)
The functions cannot be executed until the communication target PLC CPU is RUN once.
An error is returned if the PLC CPU has not been RUN once.

(c) The communication line is broken if the CPU becomes faulty or the Ethernet module is reset during Ethernet communication (when the protocol is TCP/IP).
In that case, perform line close processing (Close) and then execute reopen processing (Open).

(d) When two different communication systems (protocols) are used to make access from one IBM-PC/AT compatible to one Q series-compatible E71, two station numbers, i.e. for TCP/IP and for UDP/IP, must be set. However, it is not required to set different station numbers for TCP/IP and UDP/IP when using MX Component Version 3 or later and Q series-compatible E71 with serial No. 05051 or later.

(Example) When MX Component uses TCP/IP and GX Developer uses UDP/IP



Set different station numbers as the (TCP/IP) station number for MX Component and (UDP/IP) station number for GX Developer. If they are set to the same station number, an error will occur on the Ethernet module side.

(8) About switch settings of E71 and QE71
If the four lower digits of the error code that occurred during Ethernet communication using the E71 or QE71 is not indicated in the E71 or QE71 manual, check the DIP switch (SW2) setting of the E71 or QE71.
If the DIP switch is not set correctly, a difference has occurred in the packet format (ASCII/binary) and therefore the error code returned from the module cannot be recognized correctly.

Instructions for use of CC-Link modules

(1) Software version of CC-Link master/local module
As the CC-Link master/local module used in CC-Link communication or CC-Link G4 communication(only when the AJ65BT-G4 is used), use the module of software version "N" or later.
The module of software version "M" or earlier will not operate properly.

(2) Software version of CC-Link G4 module
As the CC-Link G4 module used in CC-Link G4 communication(only when the AJ65BT-G4 is used), use the module of software version "D" or later.
The module of software version "C" or earlier will not operate properly.

Instructions for use of MELSECNET(II), MELSECNET/10 and MELSECNET/H

(1) About relaying from the MELSECNET/10 loaded station
When the module is loaded to the AnNCPU or AnACPU, it is recognized as a MELSECNET(II) module.
When the connected station is the AnNCPU or AnACPU, set the relayed network as MELSECNET(II).
In addition, set the station number to "0" when making access to the control station.

(2) Instructions for relaying the MELSECNET(II)
When access is made to the QnACPU, AnUCPU, QCPU (A mode) or motion controller CPU via the MELSECNET(II), the device range is equivalent to that of the AnACPU.

Instructions for use of computer link and serial communication modules

(1) About computer link communication
(a) If the connected station CPU is the AnUCPU and the computer link module is the UC24 for computer link connection, remote operation will result in an error when access is made to the AnNCPU, AnACPU or QnACPU via the MELSECNET/10.
(b) On any computer link modules other than the UC24 and C24, remote "PAUSE" operation will result in an error for all connections.
(c) For the QC24, note that the illegal case of specifying the first I/O number of a nonexisting module and reading/writing U∗∗\G∗∗ will not return an error if the software version of the module is "k" or earlier.
(d) In any connection form (direct coupling, relaying) where the target station of the UC24 or C24 is the QnACPU, an error is returned if clock data read/write is executed.
(e) The FX extended port is required when performing the computer link communication using FX_{0N}, FX_{1S}, $FX_{1N(C)}$, $FX_{2N(C)}$, FX_{3G}, $FX_{3U(C)}$ CPU.

(2) Precautions for connecting personal computer and serial communication module
(a) When QJ71C24-R2 of function version A is used
An MX Component application can use only either of CH1 and CH2.
When the MELSOFT product, such as GX Developer or GOT, is using one channel, the application cannot use the other channel.
When the QJ71C24-R2 of function version B is used, the application can use both channels.
(b) When AJ71QC24-R2 or A1SJ71QC4-R2 or AJ71QC24N-R2 or A1SJ71QC24N-R2 is used
The MX Component application can use only CH1.
It cannot use CH2.

Instructions for modem communication

(1) Simultaneous modem communications
It is not allowed to simultaneously perform modem communications using MX Component and other application such as GX Developer.
Do not perform a modem communication using other applications during a modem communication using MX Component.
If modem communications are simultaneously performed using MX Component and other application, this will result in a communication error, disconnection of telephone line or similar problem.

(2) Instructions for use of telephone line

(a) Do not use the call-waiting phone line.
On the call-waiting phone line, data corruption, telephone line disconnection or similar may occur due to interrupt reading sounds.

(b) Do not connect the line to master/slave phones.
If the handset of the slave phone is lifted while the telephone line is connecting to the master/slave phones, the telephone line may be disconnected.

(c) Use an analog 2 wire type telephone line.
When using a digital line, use a terminal adaptor.
When the telephone line is of 4 wire type, the line may not be connected depending on the wiring type of the modular jack.
For the 4 wire type, conduct connection tests in advance to check for connection.

(3) Instructions for use of cellular phone

(a) Modem for radio communication using a cellular phone
Although the modem name is different depending on the maker, the modem is generically referred to as the cellular phone communication unit in this manual.
Select the model of the cellular phone communication unit according to the cellular phone used.
For details, contact the company of your cellular phone.

(b) Cellular phone without auto answer function
For the cellular phone without auto answer function, use a cellular phone communication unit that has the ANS/ORG/TEL select switch.
If the cellular phone communication unit does not have the ANS/ORG/TEL select switch, it is impossible to connect the line.
The line connection procedure is different depending on the cellular phone company and cellular phone model.
For details, contact the maker of your cellular phone.

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Instructions for programming

(1) About sample programs, test programs and sample sequence programs
  (a) Sample programs, test programs
  The sample programs are attached for your reference to create user programs.
  The test programs are attached to conduct communication tests.
  Use these programs on your own responsibility.
  (b) Sample sequence programs
  The sample sequence programs attached to MX Component must be modified depending on the system configuration and parameter settings.
  Modify them to be best for the system.
  Please note that it is user's responsibility to use the same sequence programs.

(2) About forced termination of processes during communication
  If communication is being made with the same type of control open for multiple processes, forcing one process to be terminated by Task Manager or the like may stop the other processes at the communication function execution area.

(3) About error at communication start
  A communication error may occur within the preset time-out period at a communication start, e.g. when the communication diagnostic button is pressed, at a monitor start, or at the execution of any function.
  These errors are assumed to be detected before a time-out error.
  (Example: Connection cable not connected, at PLC power-off)

(4) CheckDeviceString
  Do not use the CheckDeviceString method of each ACT control.

(5) About ActUMsg control, ActUWzd control, ActMnet2BD control and ActAFBD control
  Installing MX Component registers the ActUMsg control, ActUWzd control, ActMnet2BD control and ActAFBD control, but do not use them.

(6) Precautions for use of Act(ML)QJ71E71TCP, Act(ML)AJ71QE71TCP and Act(ML)AJ71E71TCP controls
  (a) Provide an interval longer than the sequence scan time of the Ethernet module loaded station from when the Open method is executed until the Close method is executed.
  (b) Provide an interval of at least 500ms from when the Close method is executed until the Open method is executed again.

(7) Instructions for execution of Disconnect
  If execution of Disconnect cannot disconnect the telephone line for some reason, power off the modem used to make a call to forcibly disconnect the telephone line.

Instructions for use of Microsoft® Excel

(1) Precautions for starting multiple Excel files on Windows® Me
Note that Windows® Me has been confirmed to stop if you run multiple Excel files which use many control objects.
* This phenomenon is not attributable to this product.

(a) Conditions on which this phenomenon has been confirmed to occur
Graphic driver : Matrox make MGA Mystique display driver
OS : Windows® Me (English version)
Number of controls pasted to Excel files
: A total of 150 or more controls used in the whole BOOK
<Other devices checked by Mitsubishi (reference)>
CPU : Pentium® 166MHz
Memory : 64MB
Hard disk : 8GB (free space 6GB)

(b) Cause
The phenomenon has been confirmed to occur when the Matrox make MGA Mystique graphic card display driver is used.
This is because Version 4.12 of the MGA Mystique graphic card display driver is not compatible with Windows® Me.

(c) How to judge whether the phenomenon is the same or not
After changing the used graphic driver for the standard VGA driver, delete the temporary data (*.emf) left in the temporary folder.
After that, try starting multiple Excel files.
The phenomenon seems to be the same if it does not occur by changing the driver for the standard VGA driver.

(d) Corrective action
If this phenomenon occurs, the temporary data (*.emf) will be left in the temporary folder of the system.
You have to delete the remaining temporary data (*.emf) manually.
The temporary folder of the system is normally in C:\Temp.
After that, take either of the following actions.
1) Use the graphic card and display driver which support Windows® Me.
2) Reduce the number of control objects pasted to the Excel files.

(2) Precautions for use of EXCEL VBA
Do not set the page feed preview function in the application that uses EXCEL VBA.
Doing so can cause a memory leak or OS basic operation (file operation, printing or other) fault.

(3) Precautions for use of Microsoft® Excel

(a) If you paste the control to Excel, it may sometimes not be pasted.
This phenomenon occurs if the cache file (temporary file) of Excel remains.
In such a case, perform operation in the following procedure.
1) Close Excel.
2) Delete *.exd in the Excel 8.0 folder of the temp folders. ∗1,∗2
3) Restart Excel.
∗1: The temp folder is located depending on the OS.
∗2: When the corresponding folder and file are not displayed, Make the settings in folder option setting. So that all files and folders will be displayed.

(b) Excel allows ACT control resizing, which does not affect the operation of MX Component.
To restore the size, set the Height and Width properties of ACT control to "24" again.

Instructions for use of Microsoft® Access

(1) Precautions for use of Microsoft® Access

(a) When you paste the ACT control to an Access form and double-click the ACT control or choose the custom control in the property, the following error message will appear but this does not affect the operation of ACT control. (Other error message may appear.)

Microsoft Access
The operation on the MITSUBISHI ActACPU Control object failed.
The OLE server may not be registered.
To register the OLE server, reinstall it.
OK

(b) When you paste the ACT control and display the properties, the property names displayed may be broken.
As this phenomenon occurs for only the property indication, there will be no problem in the property functions.

(c) Access allows ACT control resizing, which does not affect the operation of MX Component.
To restore the size, set the Height and Width properties of ACT control to "24" again.

Instructions for use of VBScript and ASP function

(1) Security of the Internet/intranet when using VBScript
MX Component does not have the Internet/intranet security function.
When you need the security function, make setting on the user side.

(2) Precautions for making CPU COM communication, computer link communication, CC-Link G4 communication or Ethernet (TCP/IP) communication on ASP page and application*1 when Windows® 2000 Professional is used.
If the ASP page opens CPU COM, computer link, CC-Link G4 or Ethernet (TCP/IP) communication earlier than the application, communication in the same path cannot be made on the application until the ASP page is closed. Therefore, note the following points.

(a) CPU COM, computer link, CC-Link G4 or Ethernet (TCP/IP) communication should be opened on the application earlier.
After it has been opened on the application, communication can be made on both the application and ASP page until it is closed.

(b) When CPU COM, computer link, CC-Link G4 or Ethernet (TCP/IP) communication has been opened on the ASP page, always close the communication.

*1: The application indicates any of the user applications created using the MX series and MELSOFT products.

INTRODUCTION

Thank you for choosing the Mitsubishi MELSOFT series comprehensive Factory Automation software. Read this manual and make sure you understand the functions and performance of MELSOFT series thoroughly in advance to ensure correct use.

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Manuals

The following lists the manuals for this software package.
Refer to the following table when ordering manuals.

Related Manuals

Manual Name	Manual Number (Model Code)
MX Component Version 3 Operating Manual (Startup) Provides procedures for installing and uninstalling MX Component and for browsing the operating manual. (Sold separately)	SH-080270 (13JU31)
MX Component Version 3 Operating Manual Gives how to perform setting and operation of each utility on MX Component. (Sold separately)	SH-080271 (13JU32)
Type A70BDE-J71QLP23/A70BDE-J71QLP23GE/A70BDE-J71QBR13/A70BDE-J71QLR23 MELSECNET/10 Interface Board User's Manual (For SW3DNF-MNET10) Describes the features, specifications, part names and setting of the MELSECNET/10 board, and the installation, uninstallation and others of the driver. (Sold separately)	IB-0800035 (13JL93)
Type A80BDE-J61BT11 Control & Communication Link System Master/Local Interface Board User's Manual (For SW4DNF-CCLINK-B) Describes the features, specifications, part names and setting of the CC-Link master board, and the installation, uninstallation and others of the driver. (Sold separately)	IB-0800175 (13JR28)
Type A80BDE-J61BT13 Control & Communication Link System Local Interface Board User's Manual (For SW4DNF-CCLINK-B) Describes the features, specifications, part names and setting of the CC-Link local board, and the installation, uninstallation and others of the driver. (Sold separately)	IB-0800176 (13JR29)
Type A80BDE-A2USH-S1 PLC CPU Board User's Manual (For SW1DNF-ANU-B) Describes the features, specifications, part names and setting of the CPU board, and the installation, uninstallation and others of the driver. (Sold separately)	IB-0800174 (13JR27)
MELSECNET/H Interface Board User's Manual (For SW0DNC-MNETH-B) Describes the features, specifications, part names and setting of the MELSECNET/H board, and the installation, uninstallation and others of the driver. (Sold separately)	SH-080128 (13JR24)
CC-Link IE Controller Network Interface Board User's Manual (For SW1DNC-MNETG-B) Describes the system configuration, software package installation and uninstallation, operating method for utilities, accessible ranges and devices, and troubleshooting of the CC-Link IE Controller Network board. (Sold separately)	SH-080691ENG (13JZ02)

Note: The MX Component Version 3 Operating Manual (Startup) and MX Component Version 3 Operating Manual are contained in the CD-ROM together with the software package as a set.
When you want to purchase the manual alone, it is optionally available as the printed matter of the manual number (Model code) in the above table.

How to Use This Manual

"How to Use This Manual" is given purpose-by-purpose for use of MX Component. Refer to the following outlines and use this manual.

(1) To know the feature and ACT control lists (Chapter 1)
Chapter 1 gives the ACT control outline and ACT control lists.

(2) To use the ACT controls on Visual Basic® 6.0 or Visual C++® 6.0 (Section 2.1)
Section 2.1 provides how to make settings on Visual Basic® 6.0 and Visual C++® 6.0 to use the ACT controls.

(3) To know the programming procedure (Section 2.2)
Section 2.2 contains programming procedures.

(4) To know the device types to be specified in the functions (Section 2.3)
Section 2.3 lists the device types.

(5) To know the details of the ACT controls (Chapter 3)
Chapter 3 provides the details of the ACT controls.
Read this chapter when creating a program.

(6) To know the details of the functions (Chapter 4)
Chapter 4 gives the details of the functions.
Read this chapter when creating a program.

(7) To know how to use the sample programs (Chapter 5)
Chapter 5 provides the sample programs and how to use them.
Use them as reference when creating a program.

(8) To know the definitions of the error codes (Chapter 6)
Chapter 6 lists the error codes returned by the ACT controls and the error codes returned by the CPUs, modules and network boards.

(9) To know the accessible devices and ranges
The MX Component operating manual contains the accessible devices and ranges.
Refer to the MX Component operating manual.

Generic Terms and Abbreviations

Unless otherwise started, this manual uses the following abbreviations and terms for the explanation of MX Component.

Generic Term/Abbreviation	Description
MX Component	Generic product name of the product types SWnD5C-ACT-E and SWnD5C-ACT-EA. (n denotes any versions 0 or later.) -EA means a volume-license product.
IBM-PC/AT compatible	Abbreviation of the IBM PC/AT or its compatible personal computer
PC CPU module	Abbreviation of the MELSEC-Q series compatible PC CPU module (CONTEC CO., LTD. make).
GX Developer	Generic product name of the product types SWnD5C-GPPW-E, SWnD5C-GPPW-EA, SWnD5C-GPPW-EV and SWnD5C-GPPW-EVA. (n denotes any of versions 0 or later.) -EA means a volume-license product, and -EV an updated product.
GX Simulator	Generic product name of the product types SWnD5C-LLT-E, SWnD5C-LLT-EA, SWnD5C-LLT-EV and SWnD5C-LLT-EVA. (n denotes any of versions 0 or later.) -EA means a volume-license product, and -EV an updated product.
MELSECNET/10 board	Abbreviation of Type A70BDE-J71QLP23/A70BDE-J71QLP23GE/A70BDE-J71QBR13/ A70BDE-J71QLR23 MELSECNET/10 interface board.
MELSECNET/H board	Abbreviation of Type Q80BD-J71LP21-25/Q81BD-J71LP21-25/ Q80BD-J71LP21S-25/Q80BD-J71LP21G/Q80BD-J71BR11 MELSECNET/H board.
CC-Link IE Controller Network board	Abbreviation of Type Q80BD-J71GP21-SX and Q80BD-J71GP21S-SX CC-Link IE Controller Network board.
CC-Link board	Abbreviation of Type A80BDE-J61BT11 CC-Link system master/local interface board, Type A80BDE-J61BT13 CC-Link interface board, and Type Q80BD-J61BT11N/ Q81BD-J61BT11 CC-Link system master/local interface board.
CPU board	Abbreviation of Type A80BDE-A2USH-S1 PLC CPU board.
AnNCPU	Generic term of the A0J2HCPU, A1SCPU, A1SCPU-S1, A1SCPUC24-R2, A1SHCPU, A1SJCPU, A1SJHCPU, A1NCPU, A2CCPU, A2CCPUC24, A2CCPUC24-PRF, A2CJCPU, A2NCPU, A2NCPU-S1, A2SCPU, A2SCPU-S1, A2SHCPU, A2SHCPU-S1, A3NCPU and A1FXCPU.
AnACPU	Generic term of the A2ACPU, A2ACPU-S1, A2ACPUP21/R21, A2ACPUP21-S1, A3ACPU and A3ACPUP21/R21.
AnUCPU	Generic term of the A2UCPU, A2UCPU-S1, A2USCPU, A2USCPU-S1, A2ASCPU, A2ASCPU-S1, A2ASCPU-S30, A2USHCPU-S1, A3UCPU and A4UCPU.
QnACPU	Generic term of the Q2ACPU, Q2ACPU-S1, Q2ASCPU, Q2ASCPU-S1, Q2ASHCPU, Q2ASHCPU-S1, Q3ACPU, Q4ACPU and Q4ARCPU.
ACPU	Generic term of the AnNCPU, AnACPU and AnUCPU.
QCPU (A mode)	Generic term of the Q02CPU-A, Q02HCPU-A and Q06HCPU-A.
QCPU (Q mode)	Generic term for Q00JCPU, Q00UJCPU, Q00CPU, Q00UCPU, Q01CPU, Q01UCPU, Q02CPU, Q02HCPU, Q02PHCPU, Q02UCPU, Q03UDCPU, Q03UDECPU, Q04UDHCPU, Q04UDEHCPU, Q06HCPU, Q06PHCPU, Q06UDHCPU, Q06UDEHCPU, Q10UDHCPU, Q10UDEHCPU, Q12HCPU, Q12PHCPU, Q12PRHCPU, Q13UDHCPU, Q13UDEHCPU, Q20UDHCPU, Q20UDEHCPU, Q25HCPU, Q25PHCPU, Q25PRHCPU, Q26UDHCPU and Q26UDEHCPU.
Built-in Ethernet port QCPU	Generic term for Q03UDECPU, Q04UDEHCPU, Q06UDEHCPU, Q10UDEHCPU, Q13UDEHCPU, Q26UDEHCPU and Q20UDEHCPU.
QSCPU	Stands for a safety CPU module (QS001CPU).

Generic Term/Abbreviation	Description
FXCPU	Generic term of the FX0CPU, FX0SCPU, FX0NCPU, FX1CPU, FX1NCPU, FX1NCCPU, FX1SCPU, FX2CPU, FX2CCPU, FX2NCPU, FX2NCCPU, FX3GCPU, FX3UCPU and FX3UCCPU series.
Motion controller CPU	Generic term of the A171SHCPU, A172SHCPU, A173UHCPU, A173UHCPU-S1, A273UHCPU and A273UHCPU-S3.
PLC CPU	Generic term of the QCPU(Q mode), QSCPU, QCPU(A mode), QnACPU, ACPU, FXCPU and motion controller CPU.
C24	Generic term of the A1SCPUC24-R2, A1SJ71C24-PRF, A1SJ71C24-R2, A1SJ71C24-R4, A2CCPUC24, A2CCPUC24-PRF, AJ71C24-S6 and AJ71C24-S8.
UC24	Generic term of the AJ71UC24, A1SJ71UC24-R2, A1SJ71UC24-R4 and A1SJ71UC24-PRF.
QC24	Generic term of the AJ71QC24, AJ71QC24-R2, AJ71QC24-R4, A1SJ71QC24-R2 and A1SJ71QC24-R2.
QC24N	Generic term of the AJ71QC24N, AJ71QC24N-R2, AJ71QC24N-R4, A1SJ71QC24N and A1SJ71QC24N-R2.
QC24(N)	Generic term of the QC24 and QC24N.
Q series-compatible C24	Generic term of the QJ71C24 and QJ71C24-R2.
FX extended port	Generic term of the FX0N-485ADP, FX2NC-485ADP, FX1N-485-BD, FX2N-485-BD, FX3G-485-BD, FX3U-485-BD and FX3U-485ADP.
Computer link module (Serial communication module)	Generic term of the C24, UC24, QC24(N), Q series-compatible C24 and FX extended port. Described as the serial communication module especially to indicate the QC24(N) or Q series-compatible C24.
E71	Generic term of the AJ71E71, AJ71E71-S3, A1SJ71E71-B2, A1SJ71E71-B5, A1SJ71E71-B2-S3, A1SJ71E71-B5-S3, AJ71E71N-B2, AJ71E71N-B5T, AJ71E71N3-T, A1SJ71E71N-B2, A1SJ71E71N-B5T and A1SJ71E71N3-T.
QE71	Generic term of the AJ71QE71, AJ71QE71N3-T, AJ71QE71-B5, A1SJ71QE71-B2, A1SJ71QE71-B5, AJ71QE71N-B2, AJ71QE71N-B5T, A1SJ71QE71N3-T, A1SJ71QE71N-B2 and A1SJ71QE71N-B5T.
Q series-compatible E71	Generic term of the QJ71E71, QJ71E71-B2 and QJ71E71-100.
Ethernet module	Generic term of the E71, QE71 and Q series-compatible E71.
CC-Link G4 module	Generic term of the AJ65BT-G4 GPP function peripheral connection module and the AJ65BT-G4-S3 GPP function peripheral connection module.
A6TEL	Abbreviation of A6TEL modem interface module.
Q6TEL	Abbreviation of Q6TEL modem interface module.
GOT	Abbreviation of Graphic Operation Terminal.
Computer link communication (Serial communication)	Abbreviation of communication made with the PLC CPU using the computer link module. Described as serial communication especially in communication that uses the QC24(N) or Q series-compatible C24.
Ethernet communication	Abbreviation of communication made with the PLC CPU using the Ethernet module or the built-in Ethernet part QCPU.
CPU COM communication	Abbreviation of communication made by connecting the IBM-PC/AT compatible to the RS-232 or RS-422 connector of the PLC CPU.
CPU USB communication	Abbreviation of communication made by connecting the IBM-PC/AT compatible to the USB connector of the QCPU (Q mode).
MELSECNET/10 communication	Abbreviation of communication made with the PLC CPU using the MELSECNET/10 board.
MELSECNET/H communication	Abbreviation of communication made with the PLC CPU using the MELSECNET/H board.

Generic Term/Abbreviation	Description
CC-Link IE Controller Network communication	Abbreviation of communication made with the PLC CPU using the CC-Link IE Controller Network board.
CC-Link communication	Abbreviation of communication made with the PLC CPU using the CC-Link board.
CC-Link G4 communication	Abbreviation of communication made with the PLC CPU using the CC-Link G4 module.
CPU board communication	Abbreviation of communication made with the PLC CPU using the CPU board.
Q series bus communication	Abbreviation of communication made with the PLC CPU on the same base using the PC CPU module.
GX Simulator communication	Abbreviation of communication made with the GX Simulator.
Modem communication	Abbreviation of communication made with the PLC CPU via modems using the QC24N (except the AJ71QC24N-R4), Q series-compatible C24, A6TEL, Q6TEL or FXCPU.
Gateway function communication	Abbreviation of communication made with the PLC CPU and third-party PLCs using the gateway functions of the GOT.
Utility setting type	Abbreviation of user program creation using the communication settings utility.
Program setting type	Abbreviation of user program creation without using the communication settings utility.
ACT controls	Generic term of the ActiveX controls offered by MX Component.
Redundant type extension base unit	Abbreviation of Q65WRB extension base unit for redundant system.
Redundant CPU	The Generic term of Q12PRHCPU and Q25PRHCPU.
Visual C++® .NET (MFC)	Abbreviation for creation of an application using MC/ATL/Win32.
Visual C++® .NET	Abbreviation for creation of an application using .NET Framework.
Visual Basic® .NET	Generic term of Visual Basic version Visual Studio® . NET 2003, 2005 and 2008.

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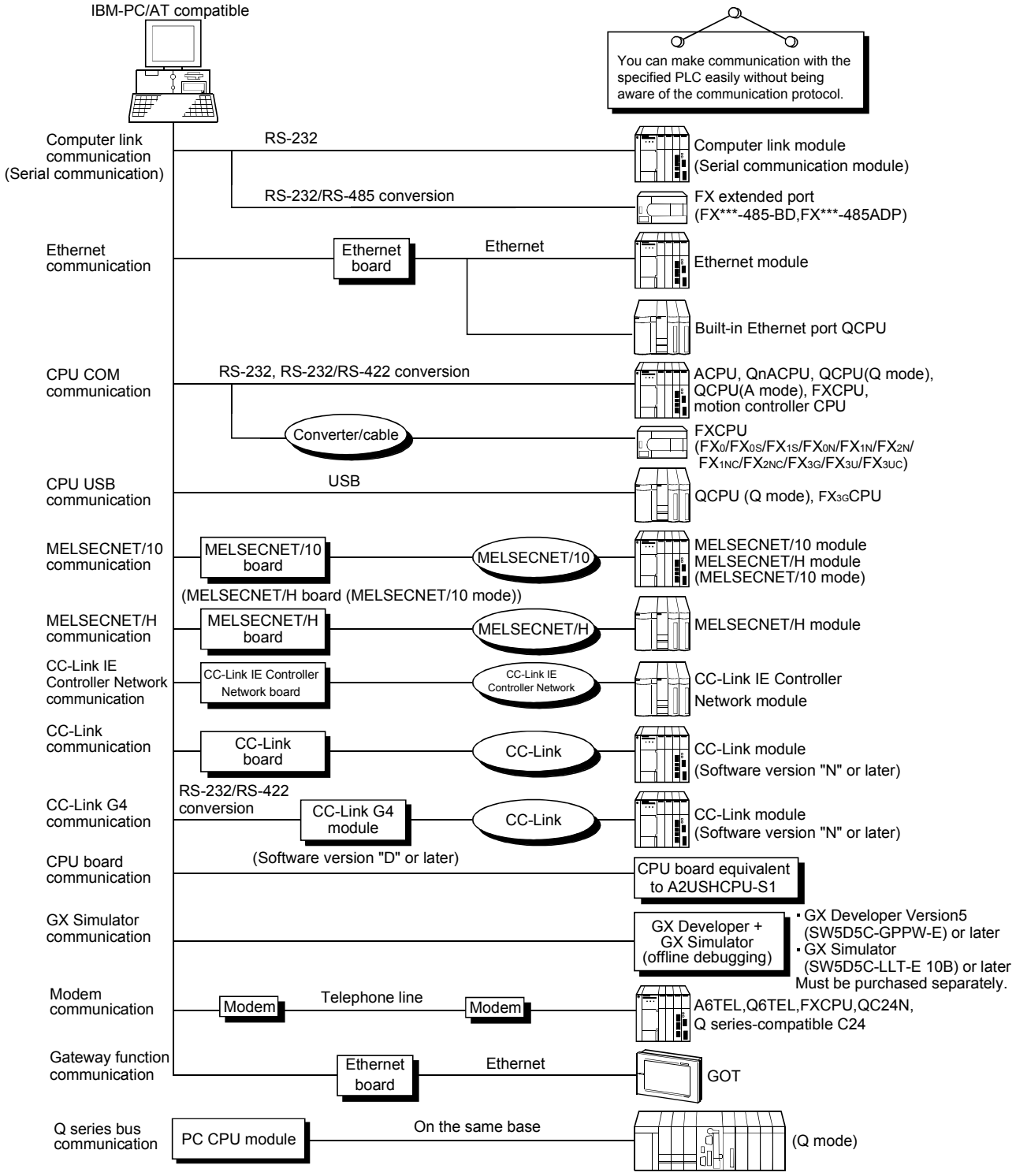
1 OVERVIEW

This chapter provides the function outline of the ACT controls offered by MX Component.

1.1 Outline of ACT Controls

These controls are used to create user programs for communication with a PLC CPU. This enables the user to make communication without being aware of the hardware and communication protocol on the other end.



1.2 ACT control and Function Lists

The following sections give the lists of ACT controls and functions.

1.2.1 ACT control list

The following table lists the ACT controls included in each DLL offered by MX Component.

DLL Name	Included Control Name		Application
	For VB, VC++, VBA	For VBScript	
ActMulti.dll	ActEasyIF	ActMLEasyIF	Used to make communication settings easily on the communication settings utility to make communication.
ActPcCom.dll	ActQCPUQ	ActMLQCPUQ	Used to make communication via the serial port of the corresponding PLC CPU.
	ActQCPUA	ActMLQCPUA	
	ActQnACPU	ActMLQnACPU	
	ActACPU	ActMLACPU	
	ActFXCPU	ActMLFXCPU	
ActComLk.dll	ActQJ71C24	ActMLQJ71C24	Used to make communication via the computer link module (serial communication module).
	ActAJ71QC24	ActMLAJ71QC24	
	ActAJ71UC24	ActMLAJ71UC24	
	ActAJ71C24	ActMLAJ71C24	
	ActFX485BD	ActMLFX485BD	
ActEther.dll	ActQJ71E71TCP	ActMLQJ71E71TCP	Used to make communication via the Ethernet module.
	ActQJ71E71UDP	ActMLQJ71E71UDP	
	ActAJ71QE71TCP	ActMLAJ71QE71TCP	
	ActAJ71QE71UDP	ActMLAJ71QE71UDP	
	ActAJ71E71TCP	ActMLAJ71E71TCP	
	ActAJ71E71UDP	ActMLAJ71E71UDP	
	ActQNUDECPUTCP	ActMLQNUDECPUTCP	Used to make communication via the Built-in Ethernet port QCPU.
	ActQNUDECPUUDP	ActMLQNUDECPUUDP	
ActPcUsb.dll	ActQCPUQUSB	ActMLQCPUQUSB	Used to make communication via the USB port of the PLC CPU.
ActModem.dll	ActA6TEL	—	Used to make communication via a subscriber phone or private phone.
	ActQ6TEL		
	ActFXCPUTEL		
	ActAJ71QC24TEL		
	ActQJ71C24TEL		
ActCcG4.dll	ActCCG4QnA	ActMLCCG4QnA	Used to make communication via the CC-Link G4 module.
	ActCCG4A	ActMLCCG4A	
	ActCCG4Q	ActMLCCG4Q	
ActBoard.dll	ActMnet10BD	ActMLMnet10BD	Used to make communication with or via the network board.
	ActMnetHBD	ActMLMnetHBD	
	ActMnetGBD	ActMLMnetGBD	
	ActCCBD	ActMLCCBD	
	ActAnUBD	ActMLAnUBD	
ActLIT.dll	ActLLT	ActMLLLT	Used to make communication with the GX Simulator.
ActPcModule.dll	ActQCPUQBus	ActMLQCPUQBus	Used to make Q series bus communication with the PC CPU module.
ActGOT.dll	ActGOT	ActMLGOT	Used to perform communication with the GOT or to read/write data from/to the GOT internal devices.
ActSupport.dll	ActSupport	ActMLSupport	Used with the troubleshooting function.
ActUsb.dll	ActFXCPUUSB	ActMLFXCPUUSB	Used to make communication via the USB port of the FX CPU.

1.2.2 Function list

The following table lists the features of the functions and the functions available for the ACT controls.

(1) Function list

Refer to "CHAPTER 4 FUNCTIONS" for full information on the functions.

Function Name	Feature
Connect	Connects a telephone line.
Open	Opens a communication line.
Close	Closes a communication line.
Disconnect	Disconnects a telephone line.
GetErrorMessage	Displays error definition and corrective action.
ReadDeviceBlock	Batch-reads data from devices. (LONG type)
WriteDeviceBlock	Batch-writes data to devices. (LONG type)
ReadDeviceBlock2	Batch-reads data from devices. (SHORT type/INT type)
WriteDeviceBlock2	Batch-writes data to devices. (SHORT type/INT type)
ReadDeviceRandom	Randomly reads data from devices. (LONG type)
WriteDeviceRandom	Randomly writes data to devices. (LONG type)
ReadDeviceRandom2	Randomly reads data from devices. (SHORT type/INT type)
WriteDeviceRandom2	Randomly writes data to devices. (SHORT type/INT type)
SetDevice	Sets one device. (LONG type)
GetDevice	Acquires the data of one device. (LONG type)
SetDevice2	Sets one device. (SHORT type/INT type)
GetDevice2	Acquires the data of one device. (SHORT type/INT type)
ReadBuffer	Reads data from buffer memory.
WriteBuffer	Writes data to buffer memory.
GetClockData	Reads clock data from PLC CPU.
SetClockData	Writes clock data to PLC CPU.
GetCpuType	Reads PLC CPU type.
SetCpuStatus	Remote RUN/STOP/PAUSE of PLC CPU.
EntryDeviceStatus	Registers device status monitor.
FreeDeviceStatus	Deregisters device status monitor.
OnDeviceStatus	Announces event.

(2) Functions available for the ACT controls

Refer to "CHAPTER 4 FUNCTIONS" for full information on the functions available for the ACT controls.

(3) Precautions for use of QSCPU

In order to protect the safety PLC system, error codes may be returned when functions writing to buffer memory, writing and setting devices and writing clock data cannot be executed.

MEMO

2 ABOUT THE ACT CONTROLS

This chapter explains the settings made for use of the ACT controls, the programming procedures, the device types and the accessible ranges.

2.1 Settings Made for Use of the ACT Controls

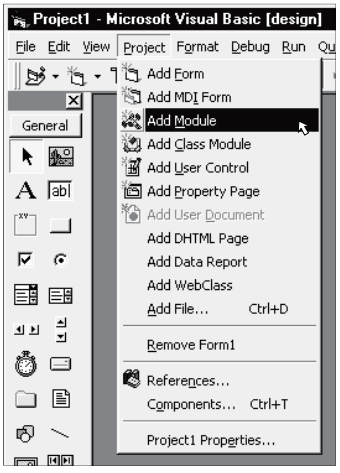
This section describes the setting operation performed for use of the ACT controls.

POINT
Note that restrictions by DEP may apply when using Microsoft® Windows® XP Service Pack2 or later, or Microsoft® Windows Vista® . For restrictions by DEP, refer to the following manual. MX Component Version 3 Operating Manual

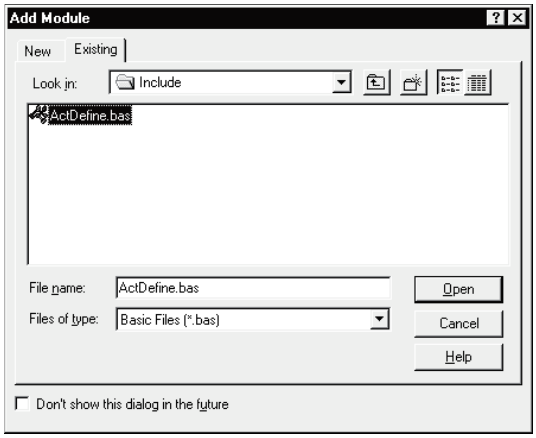
2.1.1 When using Microsoft® Visual Basic® 6.0

Perform the following setting operation when using Visual Basic® 6.0.

(1) Setting the include file



1) Start Visual Basic® 6.0 and choose the [Project]-[Add Module] menu.



2) Choose the <<Existing>> tab and select "ActDefine.bas".

"ActDefine.bas" is stored in <User specified folder>-<Act>-<Include> at the time of installation.

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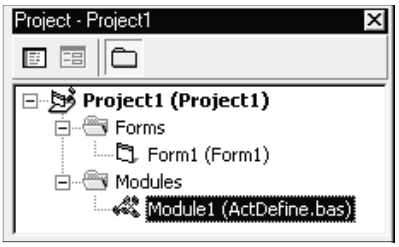
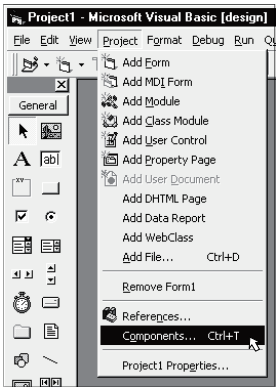


3) Registering "ActDefine.bas" adds it to Modules.

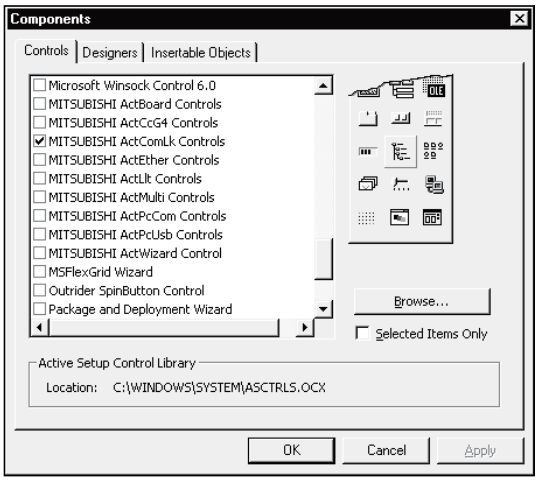
2

(2) Registering the ACT controls



1) Choose the [Project]-[Components] menu.

↓



2) Select the <<Controls>> tab and choose the DLL which includes the ACT controls you want to use.

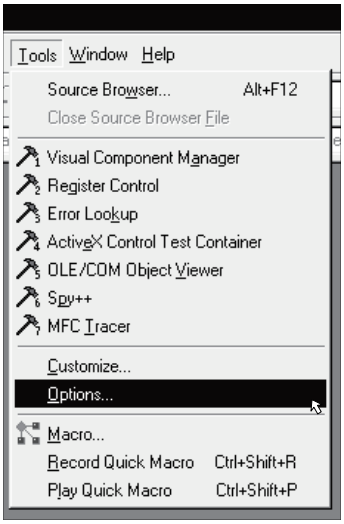
↓

3) The ACT controls included in the selected DLL are added to the toolbox.

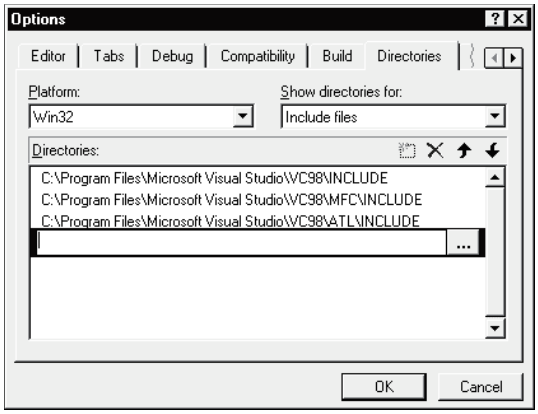
2.1.2 When using Microsoft® Visual C++® 6.0

Perform the following setting operation when using Visual C++® 6.0.

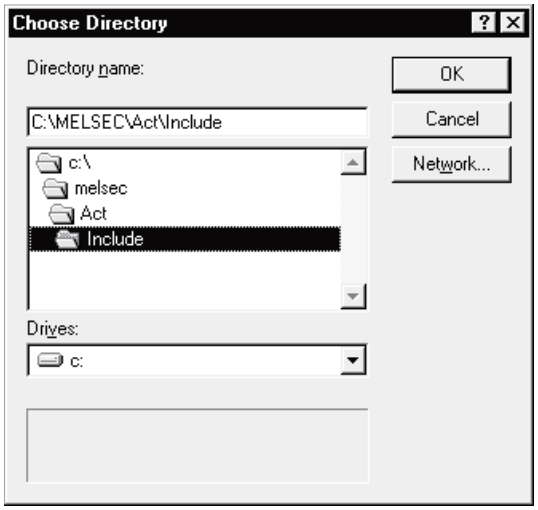
(1) Setting the include file



1) Start Visual C++® 6.0 and choose the [Tools]-[Options] menu.



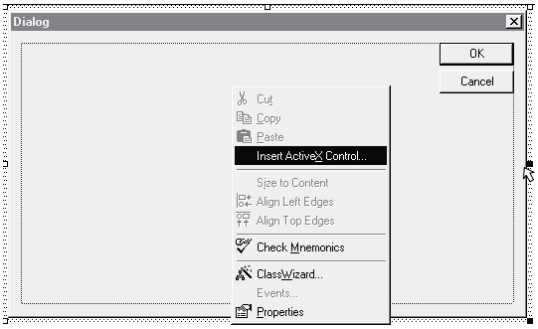
2) Choose the <<Directories>> tab and set "Include files" in "Show directories for:".



3) Double-click the item to be set, and browse the include file.

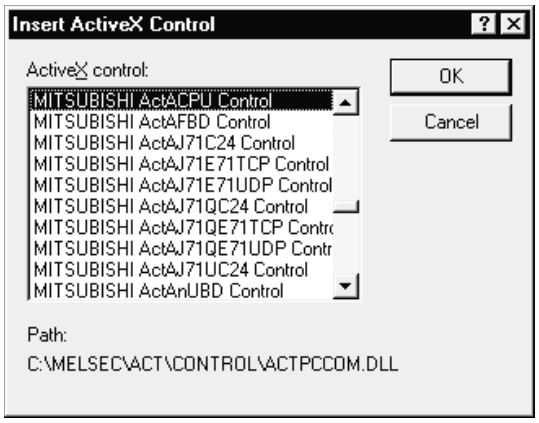
"ActDefine.H" is stored in <User specified folder>-<Act>-<Include> at the time of installation.

(2) Registering the ACT control



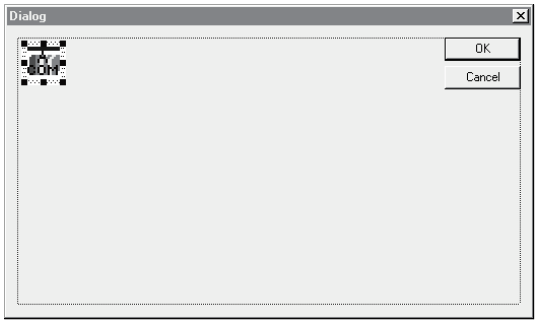
1) Right-click the form to choose "Insert ActiveX Control".

↓



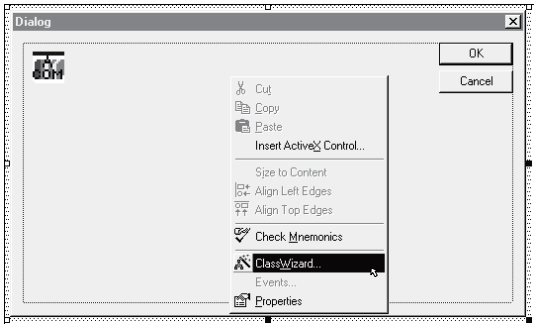
2) Select the ACT control you want to use.

↓



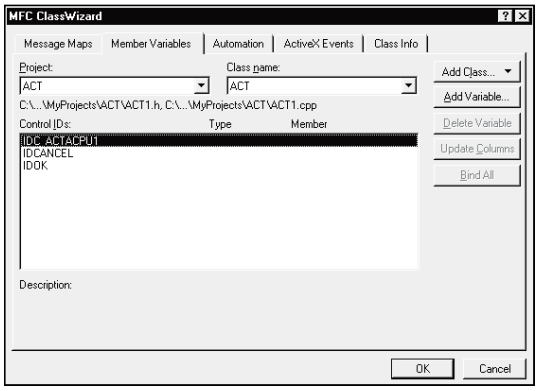
3) The selected ACT control is pasted to the form.

(3) Adding the member variable



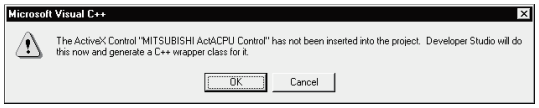
1) Click the form to choose "Class Wizard".

↓



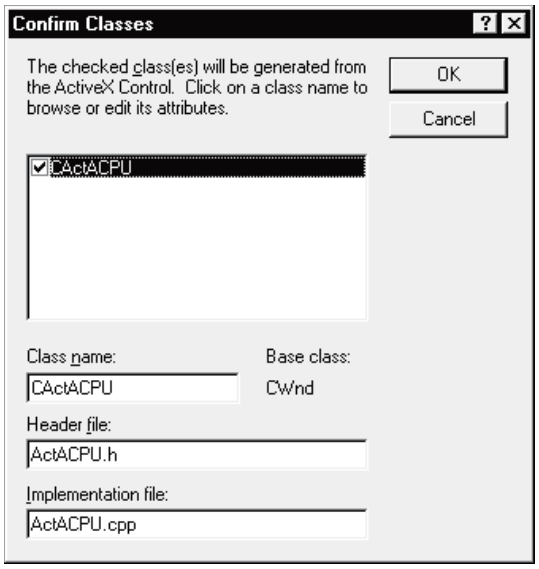
2) When the left dialog box appears, choose the <<Member Variables>> tab.
Choose the member variable adding control ID and click the Add Variable button.

↓


Microsoft Visual C++
The ActiveX Control 'MITSUBISHI ActACPU Control' has not been inserted into the project. Developer Studio will do this now and generate a C++ wrapper class for it.
OK
Cancel

3) When the left screen appears, read the information and click the OK button.

↓



4) Check the class checkbox and click the OK button.

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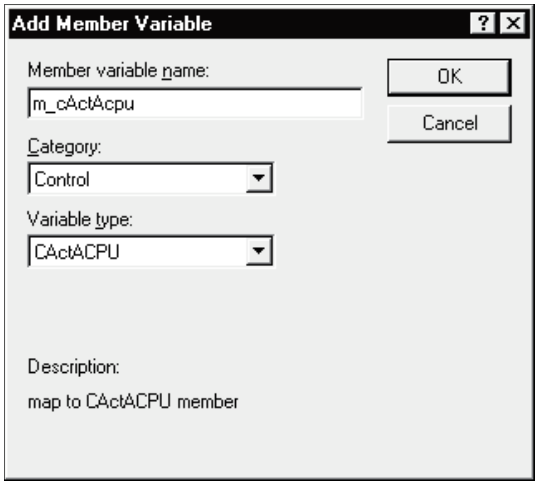
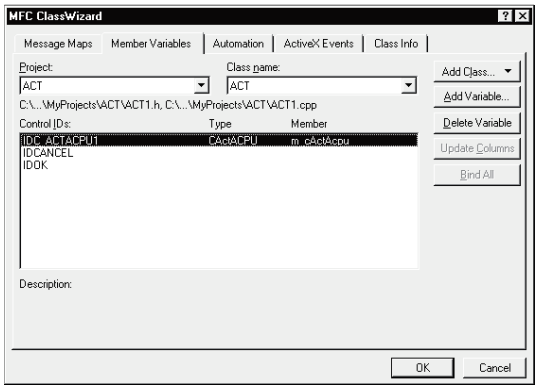


5) Enter the member variable name and click the OK button.

↓

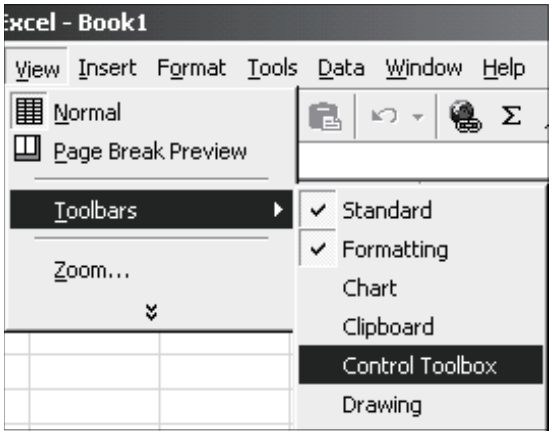


6) Make sure that the member variable has been registered.

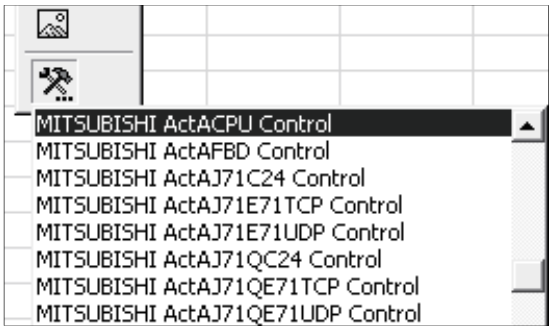
2.1.3 When using VBA

Perform the following setting operation when using VBA.

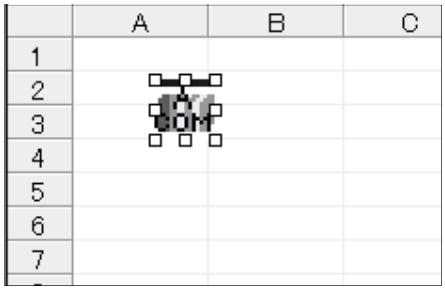
(1) When using Microsoft® Excel 2000 or Microsoft® Excel 2002



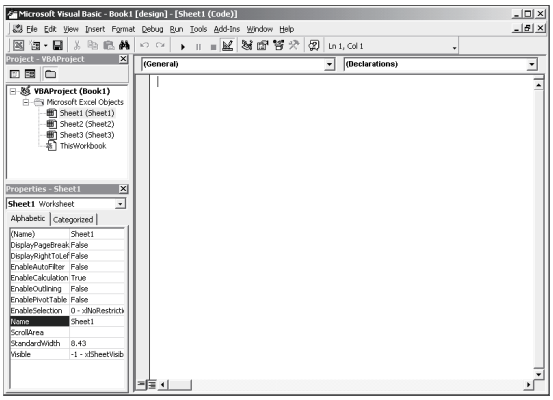
1) Boot Excel and choose the [View]-[Toolbars]-[Control Toolbox] menu.



2) Click the button of the displayed Control Toolbox. As this displays a menu, choose the ACT control you want to use.



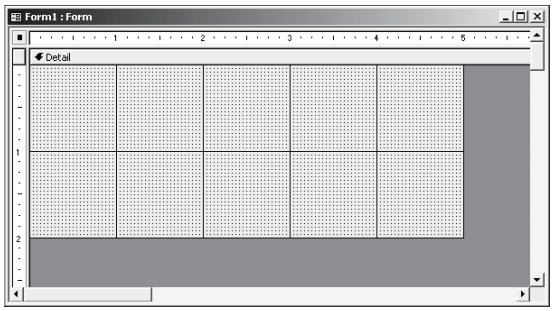
3) Paste the selected ACT control to a sheet.



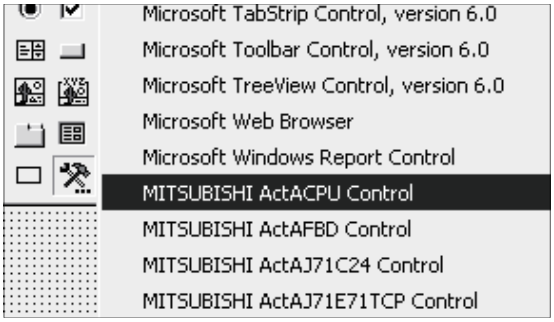
4) Choose the [Tools]-[Macro]-[Visual Basic Editor] menu to start Visual Basic Editor.

5) Perform programming on Visual Basic Editor.

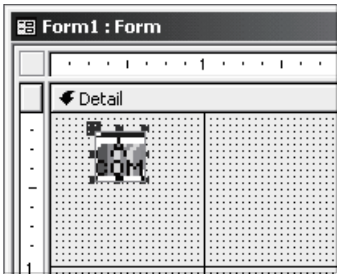
(2) When using Microsoft® Access 2000 or Microsoft® Access 2002



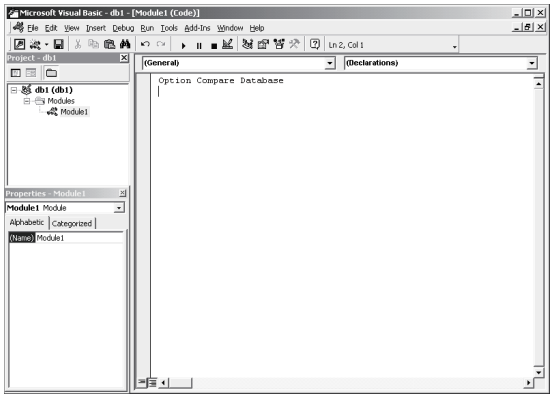
1) Boot Access and make the database form active.



2) Click the button of the toolbox. As this displays a menu, choose the ACT control you want to use.



3) Paste the selected ACT control to a sheet.



4) Choose the [Tools]-[Macro]-[Visual Basic Editor] menu to start Visual Basic Editor.

5) Perform programming on Visual Basic Editor.

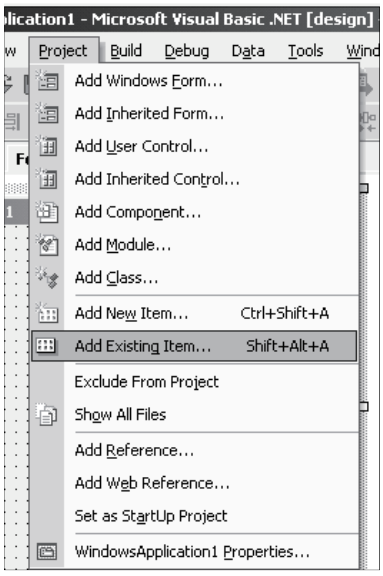
2.1.4 When using VBScript

Create HTML or ASP using the notepad, commercially available text editor, HTML creation tool or like.
Refer to the commercially available references and so on for the grammars of HTML and ASP.
Also refer to the HTML and ASP sample programs installed in MX Component.

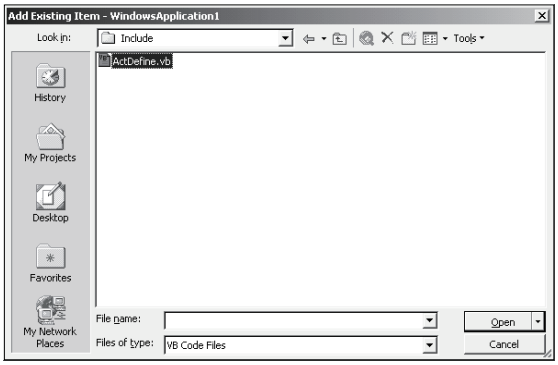
2.1.5 When Using Visual Studio® .NET

Perform the following setting operation when using Visual Studio® .NET.

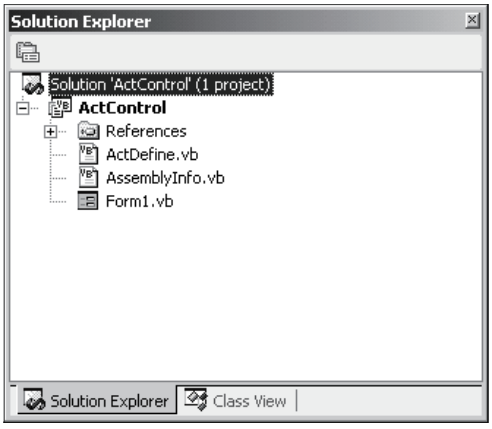
(1) Setting the include file (for Visual Basic® .NET)



1) Start the project and choose the [Project] - [Add Existing Item] menu.

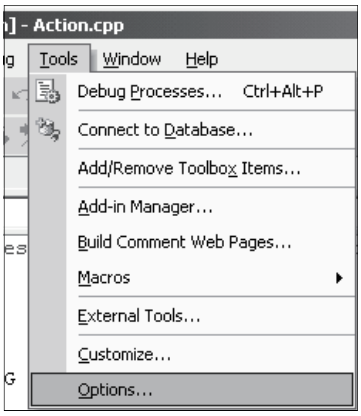


2) Refer to the ActDefine.vb file and click the Open button. At the time of installation, the ActDefine.vb file is in <User-specified folder>-<Act>-<Include>.

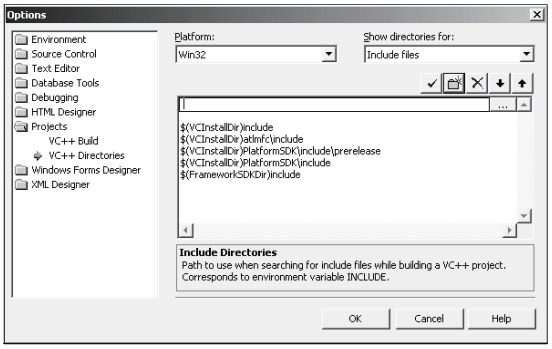


3) The "ActDefine.vb" file appears in the Solution Explorer window.

(2) Setting the include file (for Visual C++® .NET)

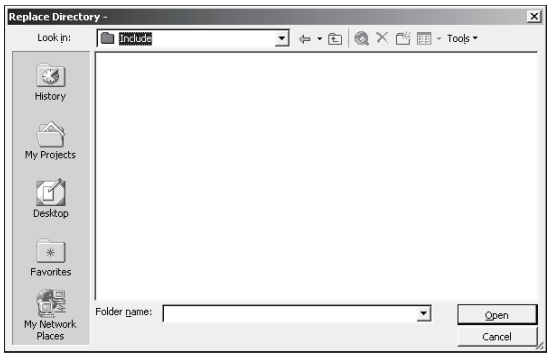


1) Start Visual Studio® .NET and choose the [Tools] - [Options] menu.



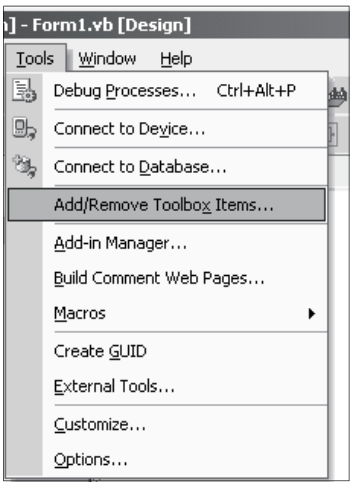
2) In the Navigation pane on the left side, choose [Projects*1] - [VC++ Directories], and select "Include files" in "Shows directories for:" at top right. In this status, click the (New line) button.
The, click the ... button.

*1: For Visual Studio® 2005 and Visual Studio® 2008, choose [Projects and Solutions].



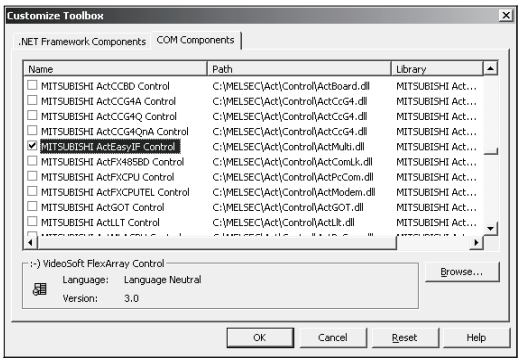
3) Refer to the folder that contains the Include files.
At the time of installation, the Include files are in <User-specified folder>-<Act>-<Include>.

(3) When pasting ACT control to form for use (Common to Visual C++® .NET and Visual Basic® .NET projects)

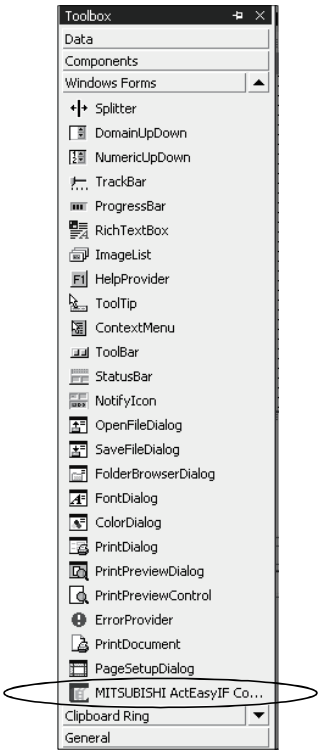


1) Choose the [Tools] - [Add/Remove Toolbox Items*2] menu.

*2: For Visual Studio® 2005 and Visual Studio® 2008, choose [Choose Toolbox Items].

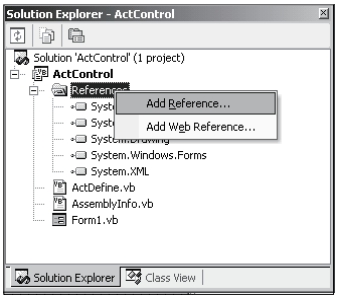


2) Choose the <<COM Components>> tab, check the ACT control to be used, and click the OK button.



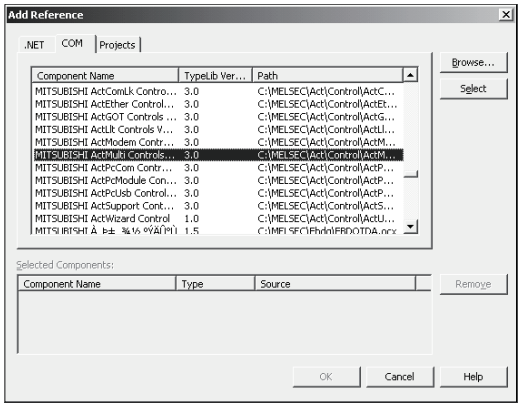
3) The ACT control is added to the bottom of the tab selected in "Toolbox".

(4) When using ACT control without pasting it to a form (Reference) (Common to Visual Studio® .NET 2003 projects)



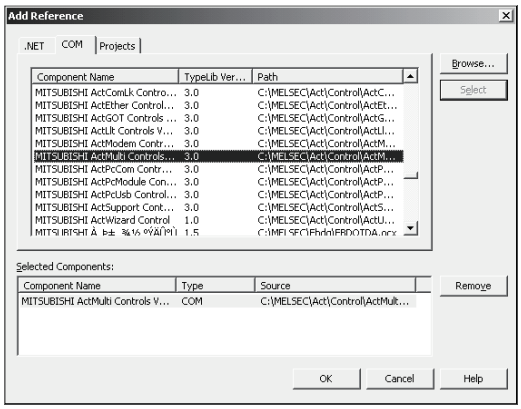
1) Choose [View] - [Solution Explorer] menu to display "Solution Explorer", and right-click "Reference" to select "Add Reference".

↓



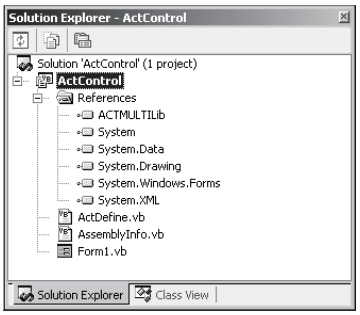
2) Choose the <<COM>> tab and select the ACT control to be used. In this state, click the Select button. By keepping the [Ctrl] key pressed, multiple ACT controls can be selected simultaneously.

↓



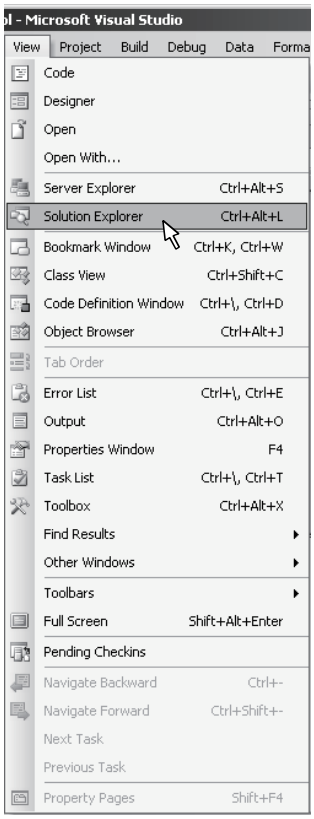
3) When all the components to be used are displayed in "Selected Components", click the OK button.

↓

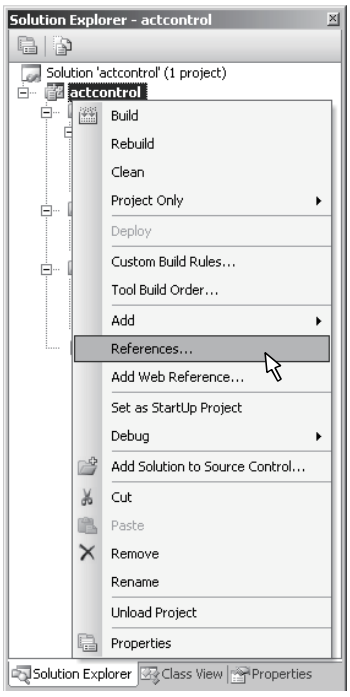


4) The library of the components used for "Solution Explorer" is set to Reference.

(5) When using ACT control without pasting it to a form (Reference)
(Common to Visual Studio® 2005 and Visual Studio® 2008 project)



1) Choose [View] - [Solution Explorer] menu to display "Solution Explorer".



2) Right-click a project and choose [Reference] menu.

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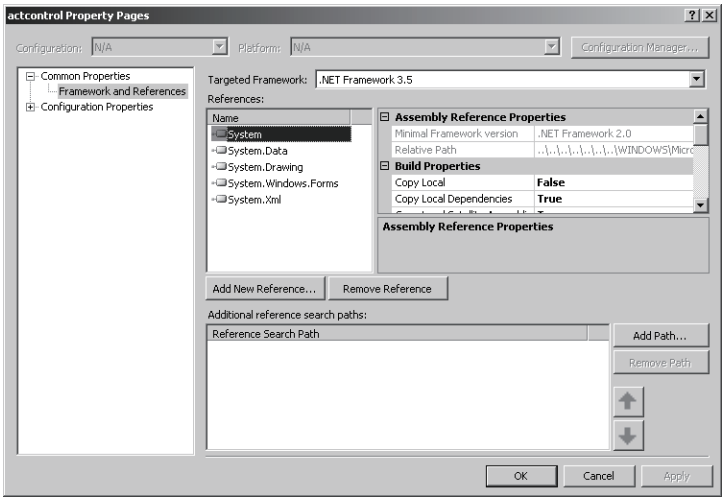

3) Click the Add New Reference… button.
(The figure is in Visual Studio® 2008.)

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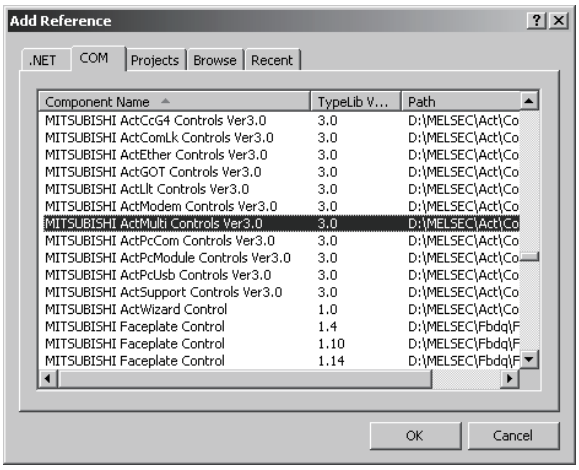

4) Choose the <<COM>> tab and click the OK button while ACT control to be used is selected.

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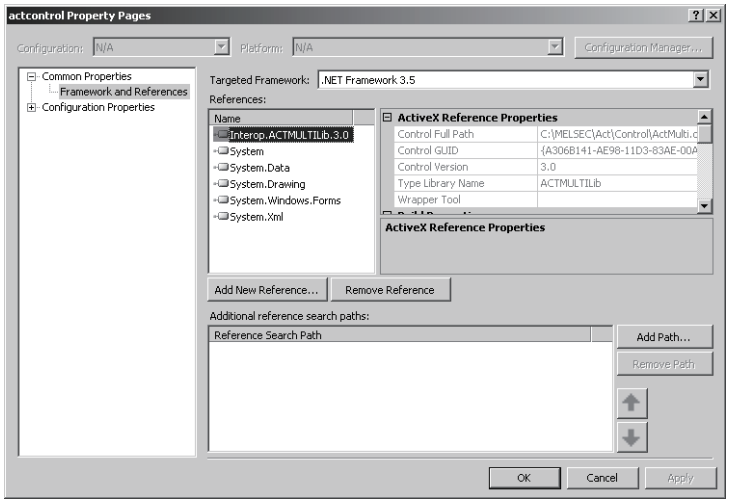
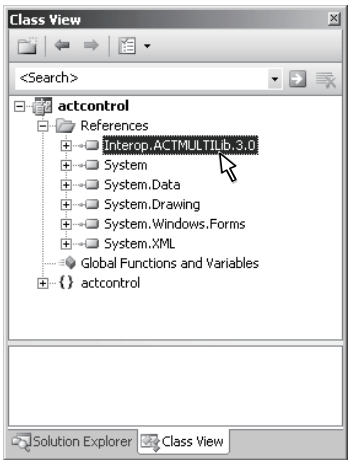


↓



5) The library of the component to be used for "References:" is set to "References". (The figure is in Visual Studio® 2008.)

The library of the component to be used can be checked in "References" on "Class View".
(In Visual Studio® 2008, enable "Show Project Reference" in the "Class View Settings".)

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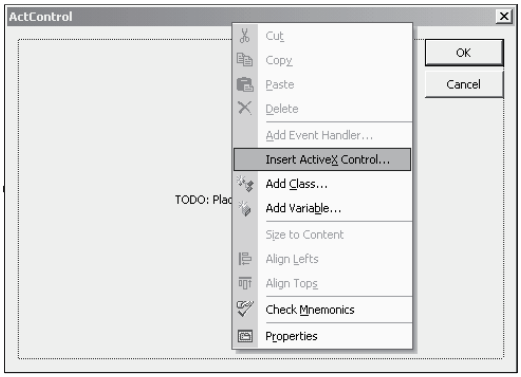
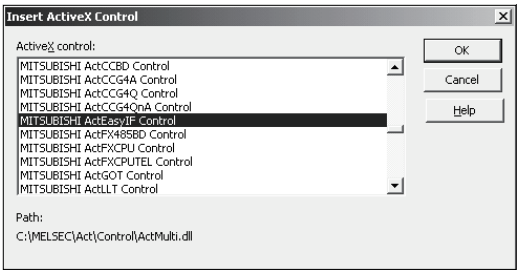
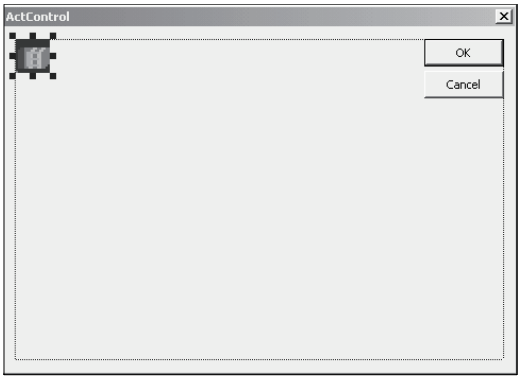
(6) When using ACT application on Visual C++-MFC



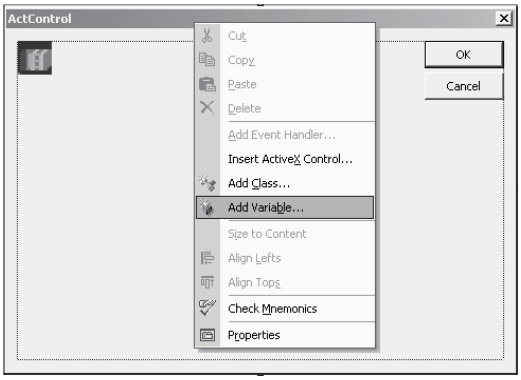
1) Right-click the form and select "Insert ActiveX Control".



2) Select the ACT control to be used, and click the OK button.



3) The selected ACT control is pasted to the form.



4) Right-click the form and select "Add Variable".

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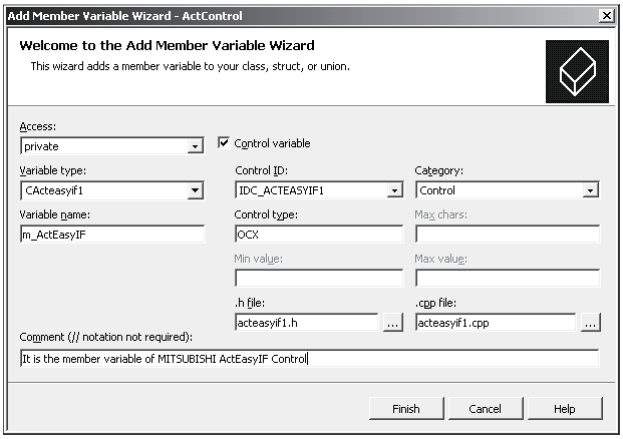
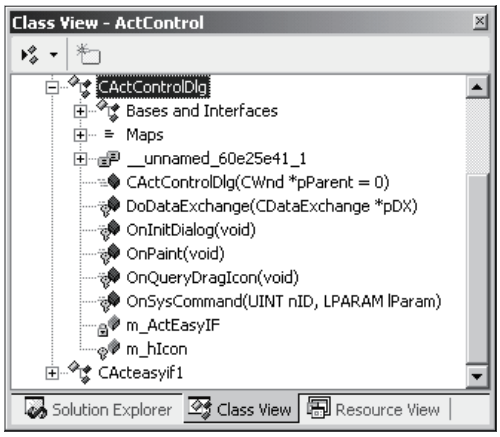


5) After checking "Control variable", select the ID of the ACT control in "Control ID", enter the variable name, and click the Finish button.

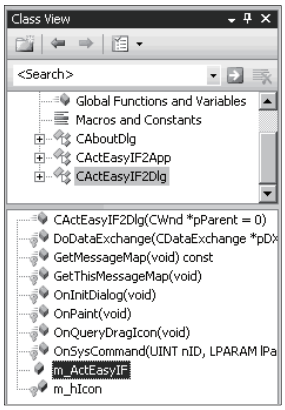
↓

6) Make sure that the member variable set in Step 5) has been created.

• In form class of Class View

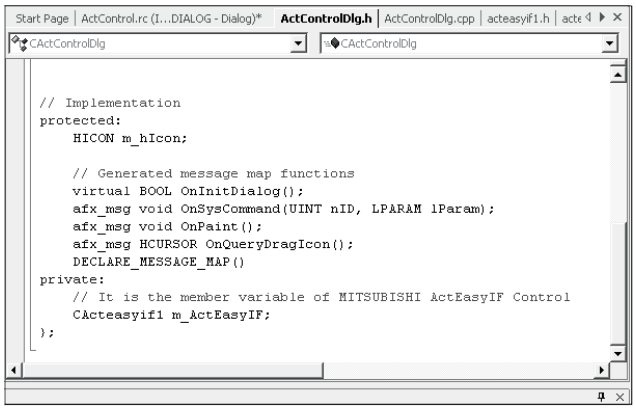


<The figure is in Visual Studio® 2005.>



<The figure is in Visual Studio® 2008.>

• In header file of form class

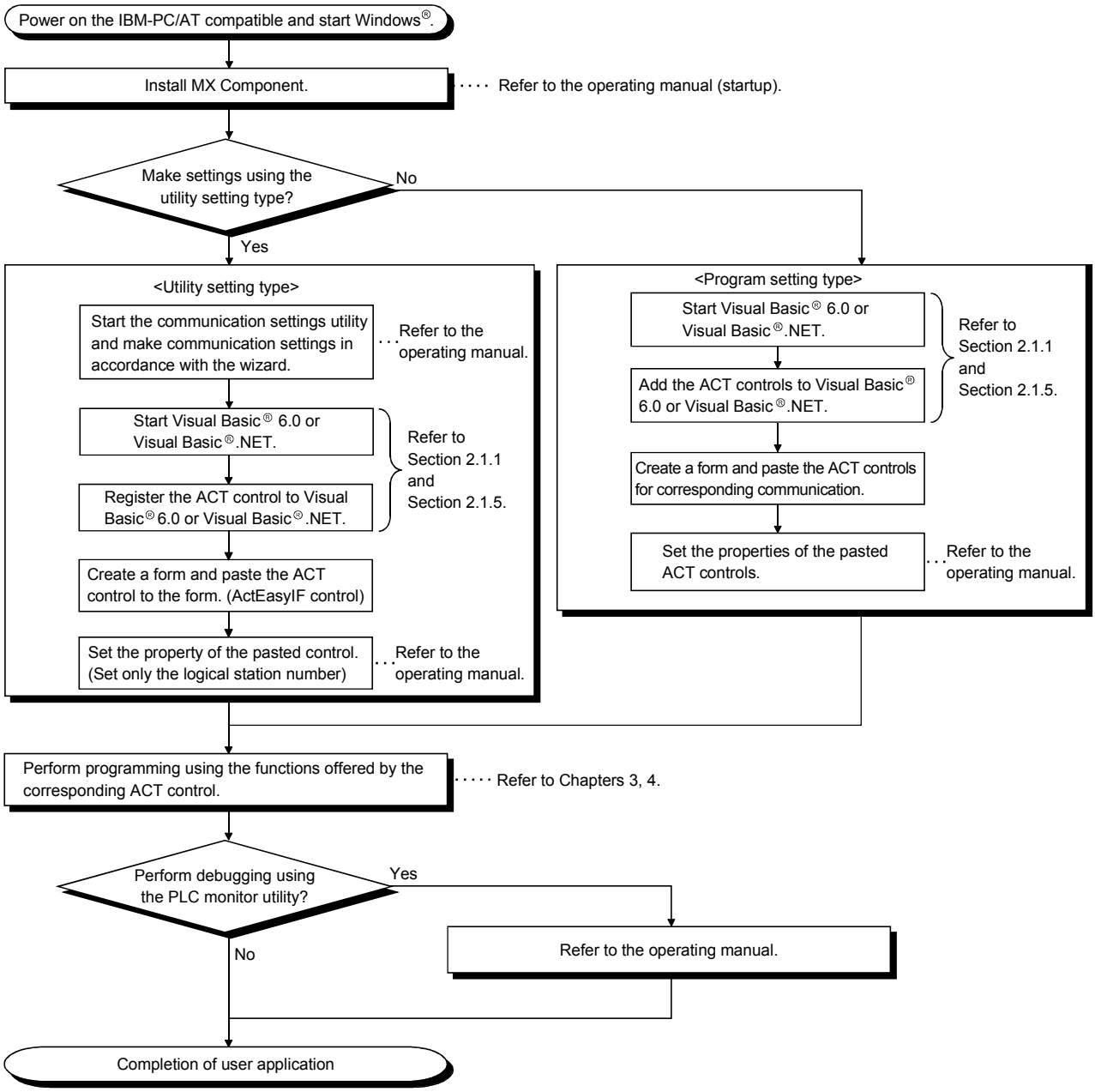


2.2 Programming Procedures

This section gives the procedures of creating a user application.

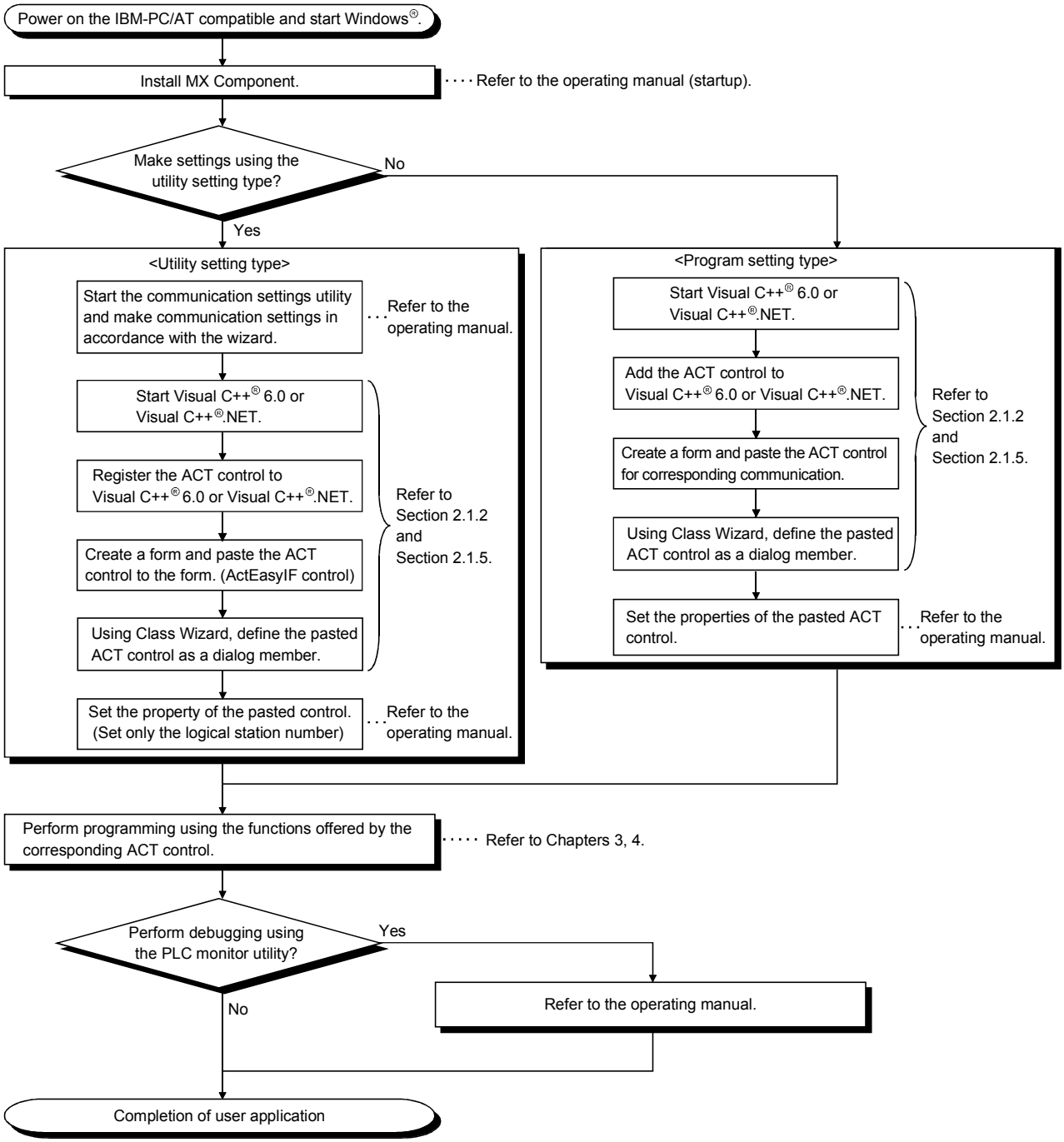
2.2.1 When using Visual Basic® 6.0 or Visual Basic® .NET

When using Visual Basic® 6.0 or Visual Basic® .NET, create a user application in the following procedure.


Power on the IBM-PC/AT compatible and start Windows®.
Install MX Component.
Refer to the operating manual (startup).
Make settings using the utility setting type?
No
Yes
<Utility setting type>
Start the communication settings utility and make communication settings in accordance with the wizard.
Refer to the operating manual.
Start Visual Basic® 6.0 or Visual Basic®.NET.
Register the ACT control to Visual Basic® 6.0 or Visual Basic®.NET.
Refer to Section 2.1.1 and Section 2.1.5.
Create a form and paste the ACT control to the form. (ActEasyIF control)
Set the property of the pasted control. (Set only the logical station number)
Refer to the operating manual.
<Program setting type>
Start Visual Basic® 6.0 or Visual Basic®.NET.
Add the ACT controls to Visual Basic® 6.0 or Visual Basic®.NET.
Refer to Section 2.1.1 and Section 2.1.5.
Create a form and paste the ACT controls for corresponding communication.
Set the properties of the pasted ACT controls.
Refer to the operating manual.
Perform programming using the functions offered by the corresponding ACT control.
Refer to Chapters 3, 4.
Perform debugging using the PLC monitor utility?
Yes
No
Refer to the operating manual.
Completion of user application

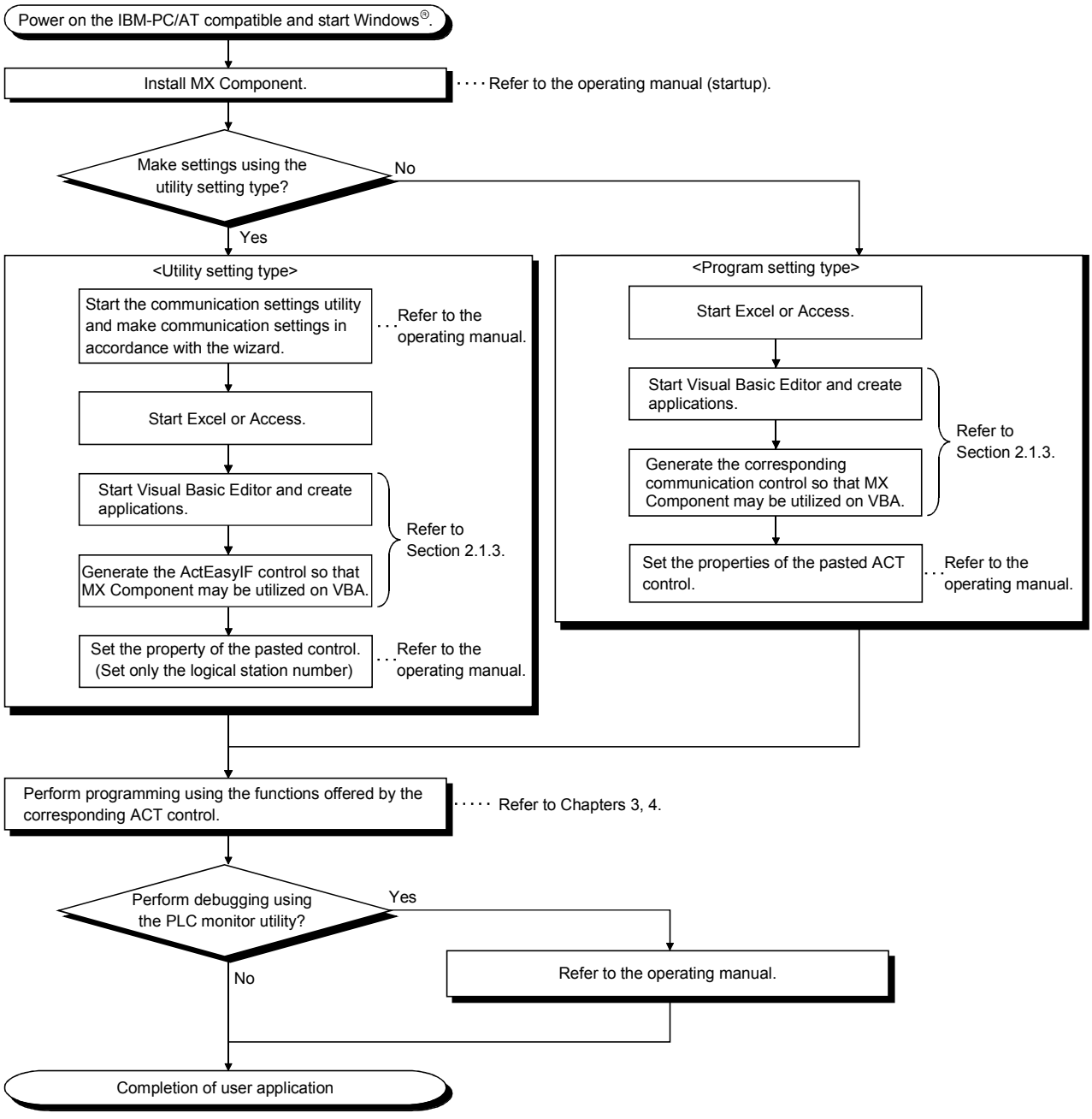
2.2.2 When using Visual C++® 6.0 or Visual C++® .NET

When using Visual C++® 6.0 or Visual C++® .NET, create a user application in the following procedure.


Power on the IBM-PC/AT compatible and start Windows®.
Install MX Component.
Refer to the operating manual (startup).
Make settings using the utility setting type?
No
Yes
<Utility setting type>
Start the communication settings utility and make communication settings in accordance with the wizard.
Refer to the operating manual.
Start Visual C++® 6.0 or Visual C++®.NET.
Register the ACT control to Visual C++® 6.0 or Visual C++®.NET.
Create a form and paste the ACT control to the form. (ActEasyIF control)
Using Class Wizard, define the pasted ACT control as a dialog member.
Refer to Section 2.1.2 and Section 2.1.5.
Set the property of the pasted control. (Set only the logical station number)
Refer to the operating manual.
<Program setting type>
Start Visual C++® 6.0 or Visual C++®.NET.
Add the ACT control to Visual C++® 6.0 or Visual C++®.NET.
Create a form and paste the ACT control for corresponding communication.
Using Class Wizard, define the pasted ACT control as a dialog member.
Refer to Section 2.1.2 and Section 2.1.5.
Set the properties of the pasted ACT control.
Refer to the operating manual.
Perform programming using the functions offered by the corresponding ACT control.
Refer to Chapters 3, 4.
Perform debugging using the PLC monitor utility?
Yes
No
Refer to the operating manual.
Completion of user application

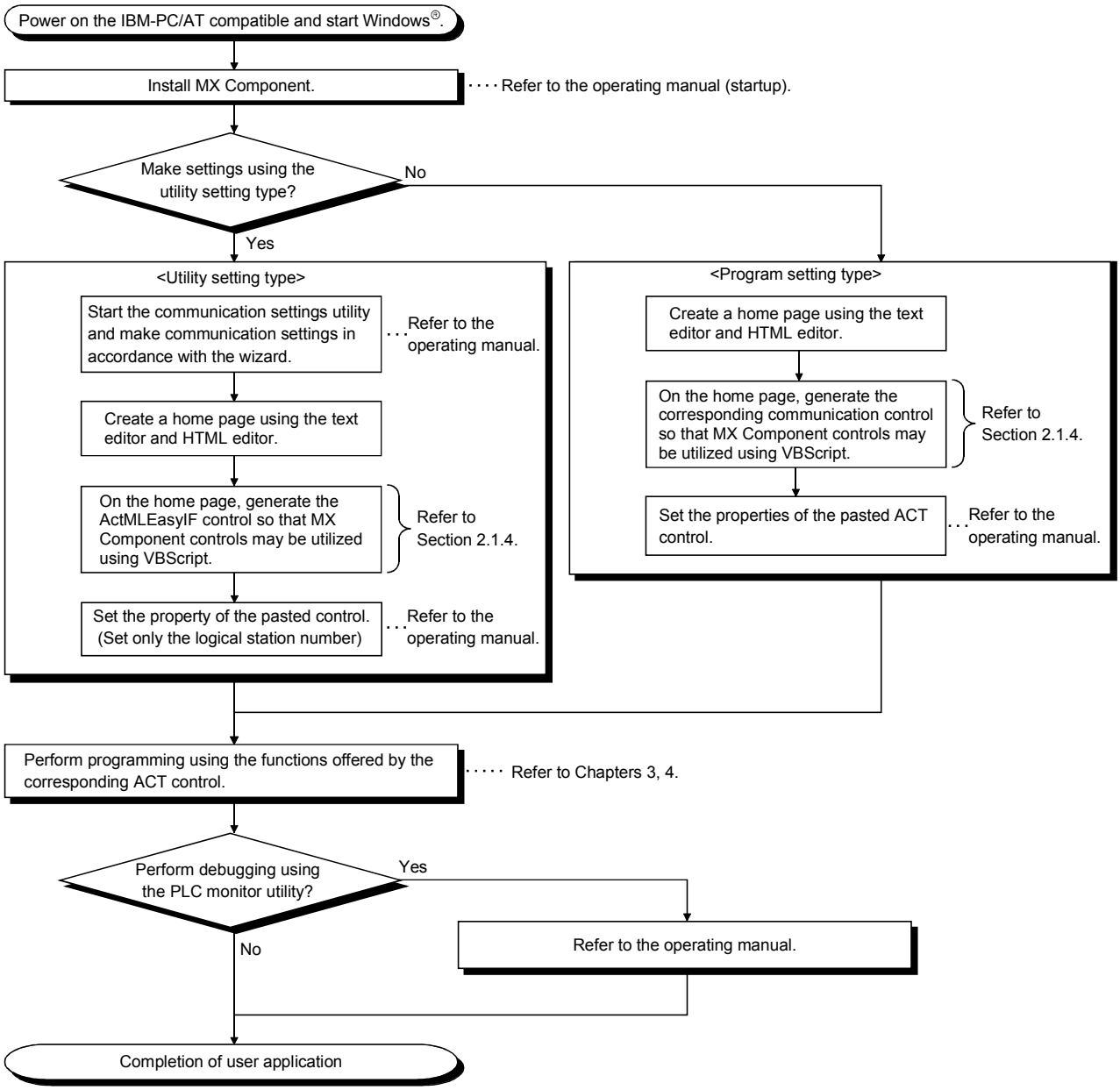
2.2.3 When using VBA

When using VBA, create a user application in the following procedure.


Power on the IBM-PC/AT compatible and start Windows®.
Install MX Component.
Refer to the operating manual (startup).
Make settings using the utility setting type?
No
Yes
<Utility setting type>
Start the communication settings utility and make communication settings in accordance with the wizard.
Refer to the operating manual.
Start Excel or Access.
Start Visual Basic Editor and create applications.
Generate the ActEasyIF control so that MX Component may be utilized on VBA.
Refer to Section 2.1.3.
Set the property of the pasted control. (Set only the logical station number)
Refer to the operating manual.
<Program setting type>
Start Excel or Access.
Start Visual Basic Editor and create applications.
Generate the corresponding communication control so that MX Component may be utilized on VBA.
Refer to Section 2.1.3.
Set the properties of the pasted ACT control.
Refer to the operating manual.
Perform programming using the functions offered by the corresponding ACT control.
Refer to Chapters 3, 4.
Perform debugging using the PLC monitor utility?
Yes
No
Refer to the operating manual.
Completion of user application

2.2.4 When using VBScript

When using VBScript, create a user application in the following procedure.


Power on the IBM-PC/AT compatible and start Windows®.
Install MX Component.
Refer to the operating manual (startup).
Make settings using the utility setting type?
No
Yes
<Utility setting type>
Start the communication settings utility and make communication settings in accordance with the wizard.
Refer to the operating manual.
Create a home page using the text editor and HTML editor.
On the home page, generate the ActMLEasyIF control so that MX Component controls may be utilized using VBScript.
Refer to Section 2.1.4.
Set the property of the pasted control. (Set only the logical station number)
Refer to the operating manual.
<Program setting type>
Create a home page using the text editor and HTML editor.
On the home page, generate the corresponding communication control so that MX Component controls may be utilized using VBScript.
Refer to Section 2.1.4.
Set the properties of the pasted ACT control.
Refer to the operating manual.
Perform programming using the functions offered by the corresponding ACT control.
Refer to Chapters 3, 4.
Perform debugging using the PLC monitor utility?
Yes
No
Refer to the operating manual.
Completion of user application

2.3 Device Types

This section explains the devices that may be specified for the functions.

POINT

(1) To specify the device with any of the following functions, specify "device name + device number". For the device numbers, note the differences between octal, decimal and hexadecimal numbers.
Target functions: ReadDeviceBlock, ReadDeviceBlock2, WriteDeviceBlock, WriteDeviceBlock2, ReadDeviceRandom, ReadDeviceRandom2, WriteDeviceRandom, WriteDeviceRandom2, SetDevice, SetDevice2, GetDevice, GetDevice2

(2) When specifying bit devices for ReadDeviceBlock, ReadDeviceBlock2, WriteDeviceBlock or WriteDeviceBlock2, specify the device number as a multiple of 16.

(3) The local devices and the file registers for individual programs of the Q/QnA series PLC CPU are not accessible by specifying the program name.

(4) Only the devices indicated in this section are supported.
Do not use unsupported devices.

(1) Common (except for gateway function communication)

The following device types are common to all communication paths but gateway function communication.

Device		Device Name	Device No. Type	Device No.	Remarks
Function input		FX	Bit	Decimal	—
Function output		FY	Bit	Decimal	—
Function register		FD	Word	Decimal	4 words/1 point ＊1
Special relay		SM	Bit	Decimal	—
Special register		SD	Word	Decimal	—
Input relay		X	Bit	Hexadecimal	Octal for FXCPU
Output relay		Y	Bit	Hexadecimal	Octal for FXCPU
Internal relay		M	Bit	Decimal	＊2
Latch relay		L	Bit	Decimal	＊2
Annunciator		F	Bit	Decimal	—
Edge relay		V	Bit	Decimal	—
Link relay		B	Bit	Decimal	—
Data register		D	Word	Decimal	—
Link register		W	Word	Hexadecimal	—
Timer	Contact	TS	Bit	Decimal	—
	Coil	TC	Bit	Decimal	—
	Present value	TN	Word	Decimal	—
Counter	Contact	CS	Bit	Decimal	—
	Coil	CC	Bit	Decimal	—
	Present value	CN	Word	Decimal	For FXCPU, 200 or more is 32-bit data.
Retentive timer	Contact	SS	Bit	Decimal	For ACPU, use timer to specify.
	Coil	SC	Bit	Decimal	For ACPU, use timer to specify.
	Present value	SN	Word	Decimal	For ACPU, use timer to specify.

Bit: Bit device Word: Word device

＊1: For batch operation, operation is performed continuously in units of one word.
For random operation, only the first one word is read.

＊2: For the QCPU (A mode) and ACPU, the M, L and S devices have the same regions independently of the device setting in the parameters.

Device		Device Name	Device No. Type	Device No.	Remarks
Link special relay		SB	Bit	Hexadecimal	—
Link special register		SW	Word	Hexadecimal	—
Step relay		S	Bit	Decimal	∗2
Accumulator		A	Word	Decimal	∗5
Index register		Z	Word	Decimal	∗5
		V	Word	Decimal	∗5
File register		R	Word	Decimal	∗3
		ZR	Word	Decimal	—
Extended file register		ER∗\R	Word	Decimal	∗4
Direct link∗6	Link input	J∗\X	Bit	Hexadecimal	∗4
	Link output	J∗\Y	Bit	Hexadecimal	∗4
	Link relay	J∗\B	Bit	Hexadecimal	∗4
	Link special relay	J∗\SB	Bit	Hexadecimal	∗4
	Link register	J∗\W	Word	Hexadecimal	∗4
	Link special register	J∗\SW	Word	Hexadecimal	∗4
Special direct buffer memory∗7∗9		U∗\G∗∗	Word	Hexadecimal /decimal	∗4, ∗8

Bit: Bit device Word: Word device

∗2: For the QCPU (A mode) and ACPU, the M, L and S devices have the same regions independently of the device setting in the parameters.

∗3: To specify the extended file register, describe "\" between the block number part and file register part.
Specifying R∗∗ specifies R of block No. 0.
Specifying ER0\R∗∗ returns an error.
Specifying ER∗∗\R∗∗ does not enable extension representation (indirect specification, digit specification).

∗4: For direct specification, describe "\" between the direct specification part and device specification part.

∗5: Cannot be used when E71 is relayed.

∗6: For J∗, specify the network number.

∗7: Specify the special module I/O number (hexadecimal) for U∗, and the buffer memory address (decimal) for G∗∗.
(Example: Specify "U20\G100" when the special module I/O number is 200H and the buffer memory address is 100.)

∗8: FXCPU cannot be used.

∗9: In a multi-QCPU configuration, an error will occur if the shared memory of the host QCPU is specified.
Also, independently of the host or other CPU, an error will occur if write to the shared memory is performed.

(2) For CC-Link communication only

For CC-Link communication only, the devices in the following table can be used when own board access is made. They cannot be used for other communication paths.

Device	Device Name	Device No. Type	Device No.	Remarks
Special relay	SM	Bit	Decimal	Special relay of own board
Special register	SD	Word	Decimal	Special register of own board
Link special register (for CC-Link)	SB	Bit	Hexadecimal	Link special relay of own board
Link special register (for CC-Link)	SW	Word	Hexadecimal	Link special register of own board
Remote input	X	Bit	Hexadecimal	RX
Remote output	Y	Bit	Hexadecimal	RY
Link register	W	Word	Hexadecimal	—

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Device	Device Name	Device No. Type	Device No.	Remarks
Remote register (write area for CC-Link)	WW	Word	Hexadecimal	RWw
Remote register (read area for CC-Link)	WR	Word	Hexadecimal	RWr
Buffer memory	ML	Word	Hexadecimal	Buffer memory of own station CC-Link module
Random access buffer	MC	Word	Hexadecimal	Random access buffer in buffer memory of own station CC-Link module
Automatic refresh buffer	MF	Bit	Hexadecimal	Automatic refresh buffer of own station CC-Link module

(3) For gateway function communication only

This section gives how to specify the device name used for gateway function communication.
For the way to specify the devices used in the methods of the other controls, refer to the MX Component Operating Manual.

Device	Device Name	Device No. Type	Device No.	Remarks
Gateway device∗1	EG	Word	Decimal	—

∗1: If data is read from the gateway device where the PLC CPU device has not been assigned, the read data is 0.

(4) About device extension representation

The device extension representation usability table is given below.
They cannot be used with ReadDeviceBlock and WriteDeviceBlock.
When the ActAJ71E71TCP, ActMLAJ71E71TCP, ActAJ71QE71TCP or ActMLAJ71QE71TCP control is used, device expansion representation is unusable.

Device Extension Representation	Target CPU							GOT
	QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU	
Digit specification (example: K4M0) ∗2	○	○	○	○	○	○	○	×
Bit specification (example: D0.1)	○∗3	○∗3	○∗3	○∗3	○∗3	○∗3	○∗3	○
Index qualification (example: M100Z0) ∗4	○	×	×	○∗1	×	×	×	×

○: Usable ×: Unusable

∗1: Unusable when QE71 is relayed.
∗2: FX/FX, DX/DY and T/C/ST (contact, coil) cannot be specified.
∗3: Z, V, T/C/ST (present value) cannot be specified.
∗4: FX/FX, DX/DY, T/C/ST (contact, coil), Z and S cannot be specified.

2.4 Accessible Devices and Ranges

Refer to the MX Component operating manual for the accessible devices and ranges for corresponding communication.

3 DETAILS OF THE ACT CONTROLS

This chapter describes the details of the ACT controls, the details of the properties, and the possessed property list.

3.1 Details of the ACT Controls

The following table lists the definitions and usable setting types of the ACT controls.

Control Name		Definition	Usable Setting Type
For VB, VC++, VBA	For VBScript		
ActEasyIF	ActMLEasyIF	Can communicate with any communication path. Use the communication settings utility to set the information for communication.	U
ActQJ71E71TCP	ActMLQJ71E71TCP	Used for Ethernet communication where the connected module is the Q series-compatible E71 (TCP/IP communication).	P
ActQJ71E71UDP	ActMLQJ71E71UDP	Used for Ethernet communication where the connected module is the Q series-compatible E71 (UDP/IP communication).	P
ActAJ71QE71TCP	ActMLAJ71QE71TCP	Used for Ethernet communication where the connected module is the QE71 (TCP/IP communication).	P
ActAJ71QE71UDP	ActMLAJ71QE71UDP	Used for Ethernet communication where the connected module is the QE71 (UDP/IP communication).	P
ActAJ71E71TCP	ActMLAJ71E71TCP	Used for Ethernet communication where the connected module is the E71 (TCP/IP communication).	P
ActAJ71E71UDP	ActMLAJ71E71UDP	Used for Ethernet communication where the connected module is the E71 (UDP/IP communication).	P
ActQNUDECPUTCP	ActMLQNUDECPUTCP	Used for Ethernet communication where the connected module is the Built-in Ethernet port QCPU (TCP/IP communication).	P
ActQNUDECPUUDP	ActMLQNUDECPUUDP	Used for Ethernet communication where the connected module is the Built-in Ethernet port QCPU (UDP/IP communication).	P
ActQCPUQ	ActMLQCPUQ	Used for CPU COM communication where the connected PLC CPU is the QCPU (Q mode).	P
ActQCPUA	ActMLQCPUA	Used for CPU COM communication where the connected PLC CPU is the QCPU (A mode).	P
ActQnACPU	ActMLQnACPU	Used for CPU COM communication where the connected PLC CPU is the QnACPU.	P
ActACPU	ActMLACPU	Used for CPU COM communication where the connected PLC CPU is the ACPU (including motion controller CPU).	P
ActFXCPU	ActMLFXCPU	Used for CPU COM communication where the connected PLC CPU is the FXCPU.	P
ActQJ71C24	ActMLQJ71C24	Used for computer link communication where the connected module is the Q series-compatible C24.	P
ActAJ71QC24	ActMLAJ71QC24	Used for computer link communication where the connected module is the QC24(N).	P
ActAJ71UC24	ActMLAJ71UC24	Used for computer link communication where the connected module is the UC24.	P
ActAJ71C24	ActMLAJ71C24	Used for computer link communication where the connected module is the C24.	P
ActFX485BD	ActMLFX485BD	Used for computer link communication where the connected module is the FX extended port.	P
ActFXCPUUSB	ActMLFXCPUUSB	Used for USB communication where the connected PLC CPU is the FXCPU.	P
ActQCPUQUSB	ActMLQCPUQUSB	Used for USB communication where the connected PLC CPU is the QCPU (Q mode).	P
ActA6TEL	—	Used for modem communication where the connected module is the A6TEL or Q6TEL (A mode).	P
ActQ6TEL	—	Used for modem communication where the connected module is the Q6TEL (QnA mode).	P

U : Utility setting type
P : Program setting type

3 - 1

Control Name		Definition	Usable Setting Type
For VB, VC++, VBA	For VBScript		
ActFXCPUTEL	—	Used for modem communication where the connected PLC CPU is the FXCPU.	P
ActAJ71QC24TEL	—	Used for modem communication where the connected module is the Q24N.	P
ActQJ71C24TEL	—	Used for modem communication where the connected module is the Q series-compatible C24 or Q series-compatible CM0.	P
ActCCG4QnA	ActMLCCG4QnA	Used for CC-Link G4 communication where the connected module is the AJ65BT-G4 (QnA mode).	P
ActCCG4A	ActMLCCG4A	Used for CC-Link G4 communication where the connected module is the AJ65BT-G4 (A mode).	P
ActCCG4Q	ActMLCCG4Q	Used for CC-Link G4 communication where the connected module is the AJ65BT-G4-S3 (Q mode).	P
ActMnet10BD	ActMLMnet10BD	Used for MELSECNET/10 communication.	P
ActMnetHBD	ActMLMnetHBD	Used for MELSECNET/H communication.	P
ActMnetGBD	ActMLMnetGBD	Used for CC-Link IE Controller Network communication.	P
ActCCBD	ActMLCCBD	Used for CC-Link communication.	P
ActAnUBD	ActMLAnUBD	Used for CPU board communication.	P
ActLLt	ActMLLLt	Used for GX Simulator communication.	P
ActQCPUQBus	ActMLQCPUQBus	Used for Q series bus communication.	P
ActGOT	ActMLGOT	Used for gateway function communication.	P
ActSupport	ActMLSupport	Used with the troubleshooting function.	P

U : Utility setting type
P : Program setting type

3.2 Details of the Properties

The following tables give the details of the properties which must be set to create a user application.

POINT

When entering a property value directly into the property window of Visual Basic® 6.0 or Visual C++® 6.0, change a character string such as a hexadecimal number or CPU type into a decimal property value.

<table>
<tr><th>Property Name (Type)</th><th>Description</th></tr>
<tr><td>ActLogicalStationNumber
(LONG)</td><td>Logical station number set on the communication settings utility. (Setting range: 0 to 1023)</td></tr>
<tr><td>ActNetworkNumber
(LONG)</td><td>Specify the network number on the MELSECNET/10(H). (Specify "0x00" when specifying the own station.)
Specify the network number for accessing other station by GX Simulator.
Specify as follows for multidrop connection (via Q series-compatible C24, QJ61BT11).
<table>
<tr><th>ActIntelligentPreferenceBit value</th><th>Description</th></tr>
<tr><td>0x00</td><td>Specify the own network.</td></tr>
<tr><td>0x01</td><td>Specify another network of multidrop destination.</td></tr>
</table></td></tr>
<tr><td>ActStationNumber
(LONG)</td><td>Specify the station number for MELSECNET/10(H) or CC-Link. (Specify "0x00" when specifying the own station.)
Specify the station number for accessing other station by GX Simulator.
Handled as the own station when access to the CPU of the CPU board is made.
Specify as follows for multidrop connection (via Q series-compatible C24, QJ61BT11).
<table>
<tr><th>ActIntelligentPreferenceBit value</th><th>Description</th></tr>
<tr><td>0x00</td><td>Specify the own network.</td></tr>
<tr><td>0x01</td><td>Specify another network of multidrop destination.</td></tr>
</table></td></tr>
<tr><td>ActUnitNumber
(LONG)</td><td>Specify the module number of the computer link module or the station number when the target is the Q series-compatible intelligent special function module. However, specify "00x0" when setting the QnA series own station (module loaded to the own station CPU).
Invalid when the target is not the computer link communication or Q series-compatible intelligent special function module.
For multidrop link, specify the module number of the target computer link module.</td></tr>
<tr><td>ActConnectUnitNumber
(LONG)</td><td>Specify the module number of the computer link module, QE71 or Q series-compatible E71.
For multidrop link, specify the module number of the requesting computer link module. For multidrop link via CPU COM communication, however, the module number of the requesting station is not needed (specify "00x0").
Specify "0x00" for other than multidrop link.
For the QE71 and Q series-compatible E71, specify the relay target station number (fixed to "0x00" for access within the own network).
For access to another network via MELSECNET/10, specify the station number set in the parameter of the connected Ethernet module.</td></tr>
<tr><td>ActIONumber
(LONG)</td><td>Specify the module I/O number.
For multidrop link or intelligent special function module access, specify the actual I/O number (first I/O number÷16) of the target computer link module or intelligent special function module (specify the I/O number of the relayed or requesting station for multidrop link).
Specify "0x3FF" when making access to another station via the own station CPU or network.</td></tr>
</table>

Property Name (Type)	Description
ActCpuType (LONG)	Specify the target CPU to communicate with. In the parameter, specify any of the CPU types in the following table.

Property value (Property window input value)	Target CPU
CPU_Q00JCPU (0x30)	Q00JCPU
CPU_Q00UJCPU (0x80)	Q00UJCPU
CPU_Q00CPU (0x31)	Q00CPU
CPU_Q00UCPU (0x81)	Q00UCPU
CPU_Q01CPU (0x32)	Q01CPU
CPU_Q01UCPU (0x82)	Q01UCPU
CPU_Q02CPU (0x22)	Q02(H)CPU
CPU_Q06CPU (0x23)	Q06HCPU
CPU_Q12CPU (0x24)	Q12HCPU
CPU_Q25CPU (0x25)	Q25HCPU
CPU_Q02PHCPU(0x45)	Q02PHCPU
CPU_Q06PHCPU(0x46)	Q06PHCPU
CPU_Q12PHCPU (0x41)	Q12PHCPU
CPU_Q25PHCPU (0x42)	Q25PHCPU
CPU_Q02CPU_A (0x141)	Q02(H)CPU-A
CPU_Q06CPU_A (0x142)	Q06HCPU-A
CPU_Q12PRHCPU (0x43)	Q12PRHCPU
CPU_Q25PRHCPU (0x44)	Q25PRHCPU
CPU_Q02UCPU(0x83)	Q02UCPU
CPU_Q03UDCPU(0x70)	Q03UDCPU
CPU_Q04UDHCPU(0x71)	Q04UDHCPU
CPU_Q06UDHCPU(0x72)	Q06UDHCPU
CPU_Q10UDHCPU(0x75)	Q10UDHCPU
CPU_Q13UDHCPU(0x73)	Q13UDHCPU
CPU_Q20UDHCPU(0x76)	Q20UDHCPU
CPU_Q26UDHCPU(0x74)	Q26UDHCPU
CPU_Q03UDECPU(0x90)	Q03UDECPU
CPU_Q04UDEHCPU(0x91)	Q04UDEHCPU
CPU_Q06UDEHCPU(0x92)	Q06UDEHCPU
CPU_Q10UDEHCPU(0x95)	Q10UDEHCPU
CPU_Q13UDEHCPU(0x93)	Q13UDEHCPU
CPU_Q20UDEHCPU(0x96)	Q20UDEHCPU
CPU_Q26UDEHCPU(0x94)	Q26UDEHCPU
CPU_QS001CPU(0x60)	QS001CPU
CPU_Q2ACPU (0x11)	Q2ACPU, Q2ASCPU, Q2ASHCPU
CPU_Q2AS1CPU (0x12)	Q2ACPU-S1, Q2ASCPU(－S1), Q2ASHCPU(－S1)
CPU_Q3ACPU (0x13)	Q3ACPU
CPU_Q4ACPU (0x14)	Q4ACPU, Q4ARCPU
CPU_A0J2HCPU (0x102)	A0J2HCPU
CPU_A1FXCPU (0x103)	A1FXCPU
CPU_A1SCPU (0x104)	A1SCPU(－S1), A1SCPUC24-R2, A1SJCPU
CPU_A1SHCPU (0x105)	A1SHCPU, A1SJHCPU
CPU_A1NCPU (0x106)	A1NCPU

Property value (Property window input value)	Target CPU
CPU_A2CCPU (0x107)	A2CCPU, A2CCPUC24(－PRF), A2CJCPU
CPU_A2NCPU (0x108)	A2NCPU(－S1), A2SCPU(－S1)
CPU_A2SHCPU(0x109)	A2SHCPU(－S1)
CPU_A3NCPU (0x10A)	A3NCPU
CPU_A2ACPU (0x10C)	A2ACPU(－S1), A2ACPUP21/R21(－S1)
CPU_A3ACPU (0x10D)	A3ACPU, A3ACPUP21/R21
CPU_A2UCPU (0x10E)	A2UCPU(－S1), A2USCPU(－S1), A2ASCPU(－S1)
CPU_A2USHS1CPU (0x10F)	A2USHCPU-S1CPU, CPU board
CPU_A3UCPU (0x110)	A3UCPU, A2ASCPU-S30
CPU_A4UCPU (0x111)	A4UCPU
CPU_FX0CPU (0x201)	FX_0CPU, FX_{0S}CPU
CPU_FX0NCPU (0x202)	FX_{0N}CPU
CPU_FX1CPU (0x203)	FX_1CPU
CPU_FX2CPU (0x204)	FX_2CPU, FX_{2C}CPU
CPU_FX2NCPU (0x205)	FX_{2N}CPU, FX_{2NC}CPU
CPU_FX1SCPU (0x206)	FX_{1S}CPU
CPU_FX1NCPU (0x207)	FX_{1N}CPU, FX_{1NC}CPU
CPU_FX3GCPU (0x209)	FX_{3G}CPU
CPU_FX3UCCPU (0x208)	FX_{3U}CPU, FX_{3UC}CPU
CPU_A171SHCPU (0x601)	A171SHCPU
CPU_A172SHCPU (0x602)	A172SHCPU
CPU_A273UHCPU (0x603)	A273UHCPU(－S3)
CPU_A173UHCPU (0x604)	A173UHCPU(－S1)
CPU_BOARD (0x401)	For own board access ＊1

＊1: Except CPU board

<table>
<tr><th>Property Name(Type)</th><th>Description</th></tr>
<tr><td>ActPortNumber
(LONG)</td><td>Specify the connection port number of the IBM-PC/AT compatible.
When the Ethernet module is connected, set any value as the port number of the requesting source (IBM-PC/AT compatible).
When "=0" was specified as the port number, the Station No.↔ IP information system should be the automatic response system. (When the system selected is other than the automatic response system via QE71, you should set the fixed value "5001".)
Also, when the control for network board is used, specify the first board as PORT_1, and the second and subsequent boards as PORT_2, PORT_3 ...
<table>
<tr><th>Property value
(Property window input value)</th><th>Description</th></tr>
<tr><td>PORT_1 (0x01)</td><td>Communication port 1</td></tr>
<tr><td>PORT_2 (0x02)</td><td>Communication port 2</td></tr>
<tr><td>PORT_3 (0x03)</td><td>Communication port 3</td></tr>
<tr><td>PORT_4 (0x04)</td><td>Communication port 4</td></tr>
<tr><td>PORT_5 (0x05)</td><td>Communication port 5</td></tr>
<tr><td>PORT_6 (0x06)</td><td>Communication port 6</td></tr>
<tr><td>PORT_7 (0x07)</td><td>Communication port 7</td></tr>
<tr><td>PORT_8 (0x08)</td><td>Communication port 8</td></tr>
<tr><td>PORT_9 (0x09)</td><td>Communication port 9</td></tr>
<tr><td>PORT_10 (0x0A)</td><td>Communication port 10</td></tr>
</table></td></tr>
<tr><td>ActBaudRate
(LONG)</td><td>Specify the baudrate for computer link communication.
<table>
<tr><th>Property value
(Property window input value)</th><th>Description</th><th>Property value
(Property window input value)</th><th>Description</th></tr>
<tr><td>BAUDRATE_300
(300)</td><td>300bps</td><td>BAUDRATE_9600
(9600)</td><td>9600bps</td></tr>
<tr><td>BAUDRATE_600
(600)</td><td>600bps</td><td>BAUDRATE_19200
(19200)</td><td>19200bps</td></tr>
<tr><td>BAUDRATE_1200
(1200)</td><td>1200bps</td><td>BAUDRATE_38400
(38400)</td><td>38400bps</td></tr>
<tr><td>BAUDRATE_2400
(2400)</td><td>2400bps</td><td>BAUDRATE_57600
(57600)</td><td>57600bps</td></tr>
<tr><td>BAUDRATE_4800
(4800)</td><td>4800bps</td><td>BAUDRATE_115200
(115200)</td><td>115200bps</td></tr>
</table></td></tr>
<tr><td>ActDataBit(LONG)</td><td>Specify the number of bits (7 or 8) of the byte data sent and received for computer link communication.</td></tr>
<tr><td>ActParity
(LONG)</td><td>Specify the parity system used for computer link communication.
<table>
<tr><th>Property value
(Property window input value)</th><th>Description</th></tr>
<tr><td>NO_PARITY (0)</td><td>No parity</td></tr>
<tr><td>ODD_PARITY (1)</td><td>Odd</td></tr>
<tr><td>EVEN_PARITY (2)</td><td>Even</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Property Name(Type)</th><th>Description</th></tr>
<tr><td>ActStopBit
(LONG)</td><td>Specify the number of stop bits used for computer link communication
<table>
<tr><th>Property value
(Property window input value)</th><th>Description</th></tr>
<tr><td>STOPBIT_ONE (0)</td><td>1 stop bit</td></tr>
<tr><td>STOPBITS_TWO (2)</td><td>2 stop bits</td></tr>
</table></td></tr>
<tr><td>ActControl
(LONG)</td><td>Specify the control setting of the signal line.
<table>
<tr><th>Property value
(Property window input value)</th><th>Description</th></tr>
<tr><td>TRC_DTR (0x01)</td><td>DTR control</td></tr>
<tr><td>TRC_RTS (0x02)</td><td>RTS control</td></tr>
<tr><td>TRC_DRT_AND_RTS (0x07)</td><td>DTR control and RTS control</td></tr>
<tr><td>TRC_DTR_OR_RTS (0x08)</td><td>DTR control or RTS control</td></tr>
</table></td></tr>
<tr><td>ActHostAddress(BSTR)</td><td>Pointer which indicates the connection host name (IP address) for Ethernet communication.</td></tr>
<tr><td>ActCpuTimeOut(LONG)</td><td>Specify the CPU watchdog timer for Ethernet communication. (Unit = "×250ms")
Specify the transmission waiting time for computer link communication of FX. (Unit = "×10ms")</td></tr>
<tr><td>ActTimeOut(LONG)</td><td>Set the time-out value of communication between the IBM-PC/AT compatible and PLC. (Unit = "ms")
MX Component may perform time-out processing internally depending on the communication path.
For details, refer to "Appendix 3 About Time-Out Periods".</td></tr>
<tr><td>ActSumCheck
(LONG)</td><td>Specify whether sumcheck is made or not.
Valid only via computer link module.
<table>
<tr><th>Property value
(Property window input value)</th><th>Description</th></tr>
<tr><td>NO_SUM_CHECK (0)</td><td>Without sumcheck</td></tr>
<tr><td>SUM_CHECK (1)</td><td>With sumcheck</td></tr>
</table></td></tr>
<tr><td>ActSourceNetworkNumber
(LONG)</td><td>Specify the requesting network number when the QE71 or Q series-compatible E71 is specified.
Specify the same network number as for the connected QE71 or Q series-compatible E71
(network number specified in the network parameter).</td></tr>
<tr><td>ActSourceStationNumber
(LONG)</td><td>Specify the requesting station number (IBM-PC/AT compatible side station number) when the QE71 or Q series-compatible E71 is specified.
Make setting to avoid setting the same station number as that of the QE71 set within the same Ethernet loop.</td></tr>
<tr><td>ActDestinationPort
Number
(LONG)</td><td>Specify the port number of the target when Ethernet communication is specified.
For access to another network, specify the relay destination port number.
For other than the automatic response system, make setting as indicated in the following table.
<table>
<tr><th colspan="2">Communication</th><th>Setting</th></tr>
<tr><td colspan="2">QE71(UDP/IP)</td><td>Fixed to "5001"</td></tr>
<tr><td rowspan="3">Q series-compatible E71(TCP/IP)</td><td>Other than Redundant PLC</td><td>Fixed to "5002"</td></tr>
<tr><td>MELSOFT connection ∗1</td><td>Fixed to "5002"</td></tr>
<tr><td>OPS connection ∗1</td><td>Depending on network parameter</td></tr>
<tr><td colspan="2">Q series-compatible E71(UDP/IP)</td><td>Fixed to "5001"</td></tr>
</table>
∗1: For details, refer to the "Q Corresponding Ethernet Interface Module User's Manual (Basic)".</td></tr>
</table>

<table>
<tr><th>Property Name(Type)</th><th>Description</th></tr>
<tr><td>ActDestinationIONumber
(LONG)</td><td>For multidrop connection (via Q series-compatible C24/CC-Link), specify the actual I/O number (first I/O÷16) of the last access target station. (When the target is the intelligent special function module)
When the target is the CPU, specify "0x3FF".</td></tr>
<tr><td>ActMultiDropChannel Number
(LONG)</td><td>For multidrop connection (via Q series-compatible C24/CC-Link), specify the multidrop connection channel number (Ch1/Ch2).
Invalid for other connections.</td></tr>
<tr><td>ActThroughNetworkType
(LONG)</td><td>When making access to the other station using the ActQJ71C24, ActQJ71E71TCP, ActQJ71E1UDP, ActQCPUQ, ActQCPUQUSB, ActMnetHBD, ActMnetGBD, ActQNUDECPUTCP or ActQNUDECPUUDP control, specify as follows depending on types of the relayed network.
When the control used is other than the above, this property is fixed to "Including MELSECNET/10".
<table>
<tr><th>Property value</th><th>Relayed network</th></tr>
<tr><td>0x00</td><td>MELSECNET/H only, CC-Link IE Controller Network only, or including both MELSECNET/H and CC-Link IE Controller Network</td></tr>
<tr><td>0x01</td><td>Including MELSECNET/10</td></tr>
</table></td></tr>
<tr><td>ActIntelligent PreferenceBit
(LONG)</td><td>For multidrop connection (via Q series-compatible C24/CC-Link), specify whether the network of the multidrop link destination will be relayed or not. (To differentiate the own network module.)
<table>
<tr><th>Property value</th><th>Description</th></tr>
<tr><td>0x00</td><td>Another network of multidrop link destination is not accessed.</td></tr>
<tr><td>0x01</td><td>Another network of multidrop link destination is accessed.</td></tr>
</table></td></tr>
<tr><td>ActDidPropertyBit
(LONG)</td><td>For access to the Q series-compatible own station intelligent special function module (intelligent special function module load on the own station CPU), making the following setting invalid makes it unnecessary to specify "ActUnitNumber". (Only "ActIONumber" is used to specify the module I/O number.)
<table>
<tr><th>Property value</th><th>Description</th></tr>
<tr><td>0x00</td><td>Module number is made valid.</td></tr>
<tr><td>0x01</td><td>Module number is made invalid.</td></tr>
</table></td></tr>
<tr><td>ActDsidPropetyBit
(LONG)</td><td>For multidrop connection (via Q series-compatible C24/CC-Link), making the following setting invalid makes it unnecessary to specify "ActDestinationIONumber".
However, when the following setting is made invalid, "ActDidPropertyBit" must be made valid. (Use "ActUnitNumber" to specify.)
<table>
<tr><th>Property value</th><th>Description</th></tr>
<tr><td>0x00</td><td>I/O number of the last access target station is made valid.</td></tr>
<tr><td>0x01</td><td>I/O number of the last access target station is made invalid.</td></tr>
</table></td></tr>
<tr><td>ActPacketType
(LONG)</td><td>Specify the packet type for communication with the A series or QnA series Ethernet module.
<table>
<tr><th>Property value
(Property window input value)</th><th>Description</th></tr>
<tr><td>PACKET_ASCII (2)</td><td>ASCII packet</td></tr>
<tr><td>PACKET_BINARY (3)</td><td>Binary packet</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Property Name(Type)</th><th>Description</th></tr>
<tr><td>ActPassword
(BSTR)</td><td>Specify a password to unlock the password lock set to a module that can be password locked such as the A6TEL, Q6TEL, Q series-compatible C24, Q series-compatible CMO, Q series-compatible E71 and Built-in Ethernet port QCPU. ＊1 ＊2
If the characters specified are other than alphanumeric, a character code conversion error (0xF1000001) occurs at execution of Open.
This setting is ignored when ActEasyIF or ActMLEasyIF control is used and a module that can be password locked is not used.</td></tr>
<tr><td>ActConnectWay (LONG)</td><td>Set the connection system.
<table>
<tr><th>Property value
(Property window input value)</th><th>Connection system＊3</th></tr>
<tr><td>TEL_AUTO_CONNECT (0x00)</td><td>Auto line connect</td></tr>
<tr><td>TEL_AUTO_CALLBACK (0x01)</td><td>Auto line connect (Callback fixation)</td></tr>
<tr><td>TEL_AUTO_CALLBACK_NUMBER (0x02)</td><td>Auto line connect (Callback number specification)</td></tr>
<tr><td>TEL_CALLBACK (0x03)</td><td>Callback connect (Fixation)</td></tr>
<tr><td>TEL_CALLBACKNUMBER (0x04)</td><td>Callback connect (Number specification)</td></tr>
<tr><td>TEL_CALLBACK_REQUEST (0x05)</td><td>Callback request (Fixation)</td></tr>
<tr><td>TEL_CALLBACK_REQUEST_NUMBER (0x06)</td><td>Callback request (Number specification)</td></tr>
<tr><td>TEL_CALLBACK_WAIT (0x07)</td><td>Callback reception waiting</td></tr>
</table></td></tr>
<tr><td>ActATCommand (BSTR)</td><td>Specify the AT command that initializes the modem.
If you set no value (do not enter the property value), the modem-standard AT command is used.
You can set up to 70 characters＊2.</td></tr>
<tr><td>ActDialNumber (BSTR)</td><td>Specify the telephone number.
You can set up to 50 characters＊2. (Characters that can be set: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, -, ＊, #)</td></tr>
<tr><td>ActOutsideLineNumber (BSTR)</td><td>Specify the number to access the outside line.
You can set up to 10 characters＊2. (Characters that can be set: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, -, ＊, #)</td></tr>
<tr><td>ActCallbackNumber (BSTR)</td><td>Specify the callback telephone number.
You can set up to 62 characters＊2. (Characters that can be set: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, -, ＊, #)
You need not set any value when the connection system (ActConnectWay) is other than auto line connect (callback number specification), callback connect (number specification) or callback request (number specification).</td></tr>
<tr><td>ActLineType (LONG)</td><td>Recognizes the line type.
<table>
<tr><th>Property value
(Property window input value)</th><th>Description</th></tr>
<tr><td>LINETYPE_PULSE (0x00))</td><td>Pulse (rotary dialing line)</td></tr>
<tr><td>LINETYPE_TONE (0x01)</td><td>Tone (pushbutton dialing line)</td></tr>
<tr><td>LINETYPE_ISDN (0x02)</td><td>ISDN (ISDN line)</td></tr>
</table></td></tr>
</table>

＊1: You need not set ActPassword if a password has not been set.

＊2: If the characters entered exceed the limit of set characters, the characters outside the setting range are ignored.

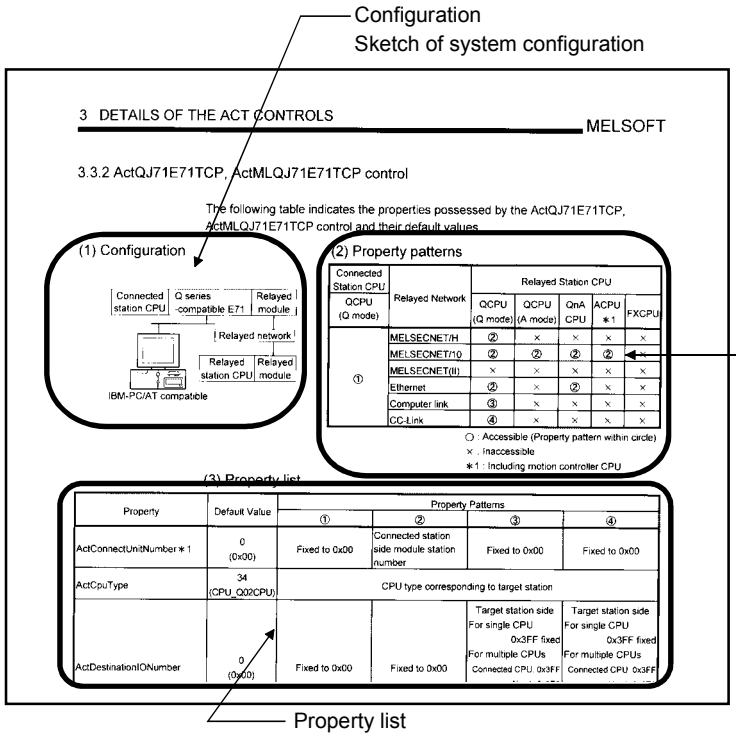
＊3: Only "Auto line connect" can be selected for the ActA6TEL, ActQ6TEL, ActFXCPUTEL and ActAJ71QC24TEL controls. For details of the connection system for use of the ActAJ71QC24TEL control, refer to "Appendix 1 About the Connection System of the Callback Function".

Property Name(Type)	Description
ActConnectionCDWait Time (LONG)	Line connection CD signal confirmation time. Set the time for watching the ON/OFF of the CD signal line when the line is connected. (Setting range: 1 to 999, unit: s) Increase the set time if the CD signal does not turn ON within the preset time depending on the line-connected region (example: overseas).
ActConnectionModem ReportWaitTime (LONG)	Line connection modem waiting time. Set the waiting time for a result code response from the modem after line connection. (Setting range: 1 to 999, unit: s) Increase the set time if the response speed of the modem is low.
ActDisconnectionCDWait Time (LONG)	Line disconnection CD signal confirmation time. Set the time for watching the ON/OFF of the CD signal line when the line is disconnected. (Setting range: 1 to 999, unit: s) Increase the set time if the CD signal does not turn OFF within the preset time depending on the line-connected region (example: overseas).
ActDisconnectionDelay Time (LONG)	Line disconnection delay time. Set the guard time (no communication time) of the escape command sent to the modem. (Setting range: 1 to 999, unit: s) Increase the set time if the response speed of the modem is low.
ActTransmissionDelay Time (LONG)	Data send delay time. Set the time to be provided before the AT command is sent. (Setting range: 0 to 999, unit: s) Increase the set time if the error code (0xF2100008) is returned though the correct AT command has been set. Increase the set time if the response speed of the modem is low.
ActATCommandResponse WaitTime (LONG)	AT command send response waiting time. (Setting range: 1 to 999, unit: s) Increase the set time if the response speed of the modem is low.
ActPasswordCancel ResponseWaitTime (LONG)	Password cancel response waiting time. (Setting range: 1 to 999, unit: s) Increase the set time if the quality of the line with the other end is low.
ActATCommandPassword CancelRetryTimes (LONG)	AT command/password cancel send retry count. (Setting range: 1 to 999, unit: number of times)
ActCallbackCancelWait Time (LONG)	Callback line disconnection waiting time. (Setting range: 1 to 180, unit: s) Increase the set time if the line at the other end (Q series-compatible C24 is not disconnected within the preset time depending on the line-connected region (example: overseas). You need not make this setting if the connection system (ActConnectWay) is other than callback connect or callback request.
ActCallbackDelayTime (LONG)	Callback execution delay time. (Setting range: 1 to 999, unit: s) Increase the set time if the device for relaying connection to the line (example: modem or like) requires the predetermined time for reconnection after line disconnection. You need not make this setting if the connection system (ActConnectWay) is other than callback connect or callback request.
ActCallbackReception WaitingTimeOut (LONG)	Callback receive waiting time-out period. (Setting range: 1 to 3600, unit: s) Set the waiting time for a telephone line connection request from the Q series-compatible C24 in a callback receive waiting status. If the set time has elapsed, the callback reception waiting status is exited, and since the connection of the telephone line was not completed, the Connect function is terminated abnormally. You need not make this setting if the connection system (ActConnectWay) is other than callback reception waiting.
ActDirect ConnectionBit (LONG)	Communication setting to the Built-in Ethernet port QCPU. Specify 0x01 for the direct communication without specifying the IP address. Specify 0x00 for the communication with specifying the IP address. The ActHostAddress setting may be invalid when the direct communication setting is made.

3.3 Lists of Properties Possessed by the ACT Controls

This section lists the properties possessed by the ACT controls and their default values.
How to use the manual in Section 3.3.1 to Section 3.3.37 is provided below.

<How to use the manual in Section 3.3.1 to Section 3.3.37>



Property patterns
Indicates the accessible ranges of the used control and the patterns of the properties.

Property list

(1) Property
Gives the property name.

(2) Default value
- Gives the default value of the property.
- The default values used when the properties are changed in the program are given within the "parentheses".

(3) Property pattern
Gives the property settings necessary to make communication settings.
Refer to the "property pattern table" for the property pattern numbers.

POINT

The default values indicated are the property values shown in the property window of Visual Basic® or Visual C++® .
The default values of the properties, whose values must be changed in other than decimal when changed in a program, are indicated in parentheses.

3.3.1 ActEasyIF, ActMLEasyIF control

The following table indicates the property possessed by the ActEasyIF, ActMLEasyIF control and its default value.

Property	Default Value	Property Pattern
ActLogicalStationNumber	0	Logical station number set on the communication settings utility
ActPassword∗1	Empty	Password set to the A6TEL, Q6TEL, Q series-compatible C24, Q series-compatible E71 and Built-in Ethernet port QCPU on the connected station side

∗1: When you did not set the password, you need not set ActPassword.

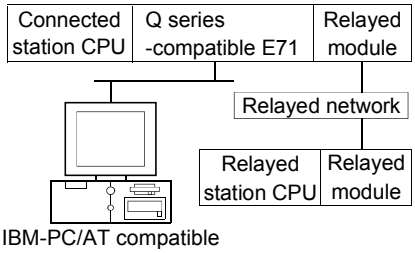
POINT

Depending on the communication path (Ethernet communication, MELSECNET/10 communication, etc.), there will be restrictions as placed on the corresponding communication path controls.
For restrictions, refer to the corresponding communication path controls (Sections 3.3.2 to 3.3.37).

3.3.2 ActQJ71E71TCP, ActMLQJ71E71TCP control

The following table indicates the properties possessed by the ActQJ71E71TCP, ActMLQJ71E71TCP control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU		Relayed Network	Relayed Station CPU					
QCPU (Q mode)	QS CPU		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	①＊2	CC-Link IE Controller Network	②	②	×	×	×	×
		MELSECNET/H	②	②	×	×	×	×
		MELSECNET/10	②	②	②	②	②	×
		MELSECNET(II)	×	×	×	×	×	×
		Ethernet	②	②	×	②	×	×
		Computer link	③＊3	×	×	×	×	×
		CC-Link	④	×	④	④	④	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Relayed stations cannot be accessed through the QSCPU.
＊3: The Redundant CPU is inaccessible to the computer link module which is on the main base.

(3) Property list

Property	Default Value	Property Patterns			
		①	②	③	④
ActConnectUnitNumber ＊4	0 (0x00)	Fixed to 0x00	Connected station side module station number	Fixed to 0x00	Fixed to 0x00
ActCpuType	34 (CPU_Q02CPU)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF
ActDestinationPortNumber	5002 (0x138A)	5002 for MELSOFT connection Any port No. for OPS connection ＊5			
ActDidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActDsidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActHostAddress	1.1.1.1	Host name or IP address of connected station side module			

＊4: For access to another station via MELSECNET/10 (for the property pattern of ②), specify the station number of the connected station side Q series-compatible E71 set in the Ethernet parameter of the connected station side Q series-compatible E71.

＊5: When using the OPS connection function for the Redundant PLC, specify any port No. that was set to the network parameter of the CPU. (The setting range is 1025 ≦ port No. ≦ 4999 or 5003 ≦ port No. ≦ 65534)

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Property	Default Value	Property Patterns			
		①	②	③	④
ActIONumber＊6	1023 (0x3FF)	For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber＊7	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Multidrop channel number	Fixed to 0x00
ActNetworkNumber＊8	1 (0x01)	Network number of target station side module	Network number of target station side module	Connected station side Q series-compatible E71 network number	Connected station side Q series-compatible E71 network number
ActPassword	Empty	Password set to the Q series-compatible E71 on the connected station side			
ActSourceNetworkNumber＊9	1 (0x01)	IBM-PC/AT compatible side network number			
ActSourceStationNumber＊10	2 (0x02)	IBM-PC/AT compatible side station number			
ActStationNumber＊6	1 (0x01)	Connected station side module station number	Connected station side module station number	Connected station side Q series-compatible E71 station number	Connected station side Q series-compatible E71 station number
ActThroughNetworkType	0 (0x00)	Refer to the property [ActThroughNetworkType] in Section 3.2.			
ActTimeOut	10000	Any value specified by user in ms units.			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number	Target station side module station number (valid)

＊6 : As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊7 : Specify the following as the channel No. to be multidrop-linked.
0: Use default channel of module.
1: Channel 1
2: Channel 2

＊8 : For the property pattern of ① or ②, specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

＊9 : Specify the same network number as the MELSECNET/10 network number set to the Q series-compatible E71 in the Ethernet parameter setting of the target station side Q series-compatible E71.

＊10: Specify the station number on the IBM-PC/AT compatible side to avoid setting the same station number as set to the Q series-compatible E71 within the same Ethernet loop.

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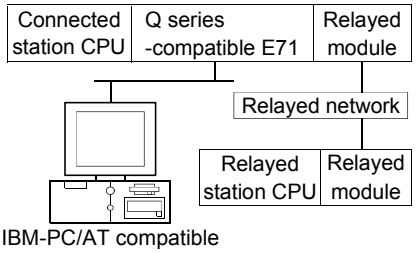
3.3.3 ActQJ71E71UDP, ActMLQJ71E71UDP control

The following table indicates the properties possessed by the ActQJ71E71UDP, ActMLQJ71E71UDP control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU		Relayed Network	Relayed Station CPU					
QCPU (Q mode)	QS CPU		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	①＊2	CC-Link IE Controller Network	②	②	×	×	×	×
		MELSECNET/H	②	②	×	×	×	×
		MELSECNET/10	②	②	②	②	②	×
		MELSECNET(II)	×	×	×	×	×	×
		Ethernet	②	②	×	②	×	×
		Computer link	③＊3	×	×	×	×	×
		CC-Link	④	×	④	④	④	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Relayed stations cannot be accessed through the QSCPU.
＊3: The Redundant CPU is inaccessible to the computer link module which is on the main base.

(3) Property list

Property	Default Value	Property Patterns			
		①	②	③	④
ActConnectUnitNumber＊4	0 (0x00)	Fixed to 0x00	Connected station side module station number	Fixed to 0x00	Fixed to 0x00
ActCpuType	34 (CPU_Q02CPU)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF
ActDidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActDsidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActHostAddress	1.1.1.1	Host name or IP address of connected station side module			

＊4: For access to another station via MELSECNET/10 (for the property pattern of ②), specify the station number of the connected station side Q series-compatible E71 set in the Ethernet parameter of the connected station side Q series-compatible E71.

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Property	Default Value	Property Patterns			
		①	②	③	④
ActIONumber＊5	1023 (0x3FF)	For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber ＊6	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Multidrop channel number	Fixed to 0x00
ActNetworkNumber＊7	1 (0x01)	Network number of target station side module	Network number of target station side module	Connected station side Q series-compatible E71 network number	Connected station side Q series-compatible E71 network number
ActPassword	Empty	Password set to the Q series-compatible E71 on the connected station side			
ActPortNumber＊8	5001	IBM-PC/AT compatible side port number			
ActSourceNetworkNumber＊9	1 (0x01)	IBM-PC/AT compatible side network number			
ActSourceStationNumber＊10	2 (0x02)	IBM-PC/AT compatible side station number			
ActStationNumber＊7	1 (0x01)	Target station side module station number	Target station side module station number	Connected station side Q series-compatible E71 station number	Connected station side Q series-compatible E71 station number
ActThroughNetworkType	0 (0x00)	Refer to the property [ActThroughNetworkType] in Section 3.2.			
ActTimeOut	10000	Any value specified by user in ms units.			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number	Target station side module station number

＊5 : As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊6 : Specify the following as the channel No. to be multidrop-linked.
0: Use default channel of module.
1: Channel 1
2: Channel 2

＊7 : For the property pattern of ① or ②, specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

＊8 : Specify the same network number as the MELSECNET/10 network number set to the Q series-compatible E71 in the Ethernet parameter setting of the target station side Q series-compatible E71.

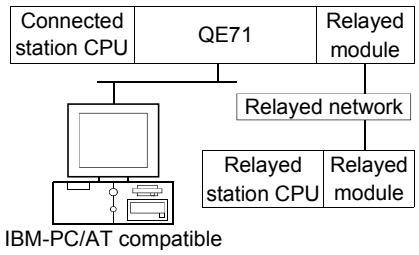
＊9 : Do not use 1 to 1024 of ActPortNumber.

＊10: Specify the station number on the IBM-PC/AT compatible side to avoid setting the same station number as set to the Q series-compatible E71 within the same Ethernet loop.

3.3.4 ActAJ71QE71TCP, ActMLAJ71QE71TCP control

The following table indicates the properties possessed by the ActAJ71QE71TCP, ActMLAJ71QE71TCP control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU / QnACPU	Relayed Network	Relayed Station CPU					
		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	×	②	×	×
	MELSECNET(II)	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

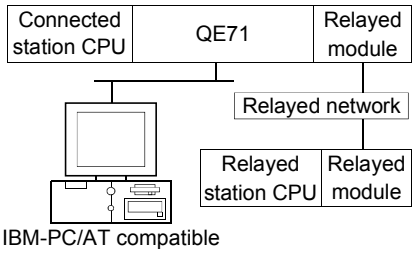
(3) Property list

Property	Default Value	Property Patterns	
		①	②
ActCpuTimeOut	40	Any value specified by user in 250ms units	
ActCpuType	17 (CPU_Q2ACPU)	CPU type corresponding to target station	
ActDestinationPortNumber	1280 (0x500)	Port number of connected station side module	
ActHostAddress	1.1.1.1	Host name or IP address of connected station side module	
ActNetworkNumber	0 (0x00)	0x00	Target station side module network number
ActPacketType	2 (PACKET_ASCII)	PACKET_BINARY or PACKET_ASCII	
ActStationNumber	255 (0xFF)	0xFF	Target station side module station number
ActTimeOut	10000	Any value specified by user in ms units	

3.3.5 ActAJ71QE71UDP, ActMLAJ71QE71UDP control

The following table indicates the properties possessed by the ActAJ71QE71UDP, ActMLAJ71QE71UDP control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU / QnACPU	Relayed Network	Relayed Station CPU					
		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	×	②	×	×
	MELSECNET(II)	×	×	×	×	×	×
	Ethernet	×	×	×	②	×	×
	Computer link	×	×	×	③	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(3) Property list

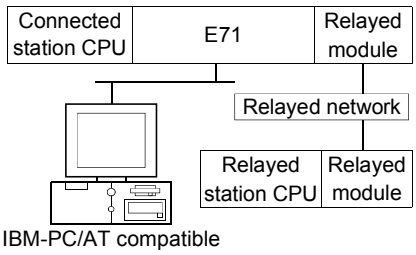
Property	Default Value	Property Patterns		
		①	②	③
ActConnectUnitNumber ＊1	0 (0x00)	Fixed to 0x00	Connected station side module station number	Fixed to 0x00
ActCpuType	17 (CPU_Q2ACPU)	CPU type corresponding to target station		
ActHostAddress	1.1.1.1	Host name or IP address of connected station side module		
ActIONumber ＊7	1023 (0x3FF)	Fixed to 0x3FF	Fixed to 0x3FF	Connected station side relayed module I/O address
ActNetworkNumber ＊2	1 (0x01)	Target station side module network number	Target station side module network number	Connected station side QE71 network number
ActPortNumber ＊3 ＊6	5001	IBM-PC/AT compatible side port number		
ActSourceNetworkNumber ＊4	1 (0x01)	IBM-PC/AT compatible side network number		
ActSourceStationNumber ＊5	2 (0x02)	IBM-PC/AT compatible side station number		
ActStationNumber ＊2	1 (0x01)	Target station side module station number	Target station side module station number	Connected station side QE71 station number
ActHostAddress	1.1.1.1	Host name or IP address of connected station side module		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number

＊1: For access to another station via MELSECNET/10 (for the property pattern of ②), specify the station number of the connected station side QE71 set in the Ethernet parameter of the connected station side QE71.
＊2: For the property pattern of ① or ②, specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.
＊3: Specify fixed "5001" when the Ethernet parameter setting of the connected station side QE71 is other than the "automatic response system". Specify fixed "0" when the Ethernet parameter setting of the connected station side QE71 is the "automatic response system".
＊4: Specify the same network number as the MELSECNET/10 network number set to the QE71 in the Ethernet parameter setting of the target station side QE71.
＊5: Specify the station number on the IBM-PC/AT compatible side to avoid setting the same station number as set to the QE71 within the same Ethernet loop.
＊6: Do not use 1 to 1024 of ActPortNumber.
＊7: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

3.3.6 ActAJ71E71TCP, ActMLAJ71E71TCP control

The following table indicates the properties possessed by the ActAJ71E71TCP, ActMLAJ71E71TCP control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU			Relayed Network	Relayed Station CPU					
QCPU (A mode)	QnA CPU	ACPU ＊1		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	① ＊2	①	CC-Link IE Controller Network	×	×	×	×	×	×
			MELSECNET/H	×	×	×	×	×	×
			MELSECNET/10	×	×	②	②＊2	②	×
			MELSECNET(II)	×	×	②	②＊2	②	×
			Ethernet	×	×	×	×	×	×
			Computer link	×	×	×	×	×	×
			CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Operates as the one equivalent to AnACPU.

(3) Property list

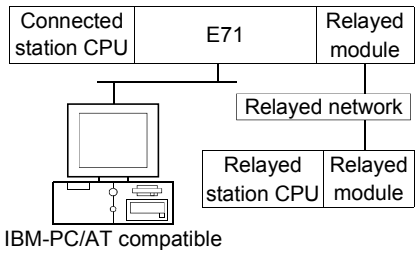
Property	Default Value	Property Patterns	
		①	②
ActCpuTimeOut	40	Any value specified by user in 250ms units	
ActCpuType	262 (CPU_A1NCPU)	CPU type corresponding to target station	
ActDestinationPortNumber	1280 (0x500)	Port number of connected station side module	
ActHostAddress	1.1.1.1	Host name or IP address of connected station side module	
ActPacketType	2 (PACKET_ASCII)	PACKET_BINARY or PACKET_ASCII	
ActStationNumber＊3	255 (0xFF)	Fixed to 0xFF	Target station side module station number
ActTimeOut	10000	Any value specified by user in ms units	

＊3: Note the following points depending on whether the connected station side MELSECNET/10 module is the control station or ordinary station.
When the connected station side MELSECNET/10 module is the control station..... Specify the actual station number of the target station side MELSECNET/10 module in ActStationNumber.
When the connected station side MELSECNET/10 module is the ordinary station.... Always set the target station side MELSECNET/10 module as the control station and specify "0x00" in ActStationNumber.

3.3.7 ActAJ71E71UDP, ActMLAJ71E71UDP control

The following table indicates the properties possessed by the ActAJ71E71UDP, ActMLAJ71E71UDP control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU			Relayed Network	Relayed Station CPU					
QCPU (A mode)	QnA CPU	ACPU ＊1		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	① ＊2	①	CC-Link IE Controller Network	×	×	×	×	×	×
			MELSECNET/H	×	×	×	×	×	×
			MELSECNET/10	×	×	②	②＊2	②	×
			MELSECNET(II)	×	×	②	②＊2	②	×
			Ethernet	×	×	×	×	×	×
			Computer link	×	×	×	×	×	×
			CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Operates as the one equivalent to AnACPU.

(3) Property list

Property	Default Value	Property Patterns	
		①	②
ActCpuTimeOut	40	Any value specified by user in 250ms units	
ActCpuType	262 (CPU_A1NCPU)	CPU type corresponding to target station	
ActDestinationPortNumber	1280 (0x500)	Port number of connected station side module	
ActHostAddress	1.1.1.1	Host name or IP address of connected station side module	
ActPacketType	3 (PACKET_BINARY)	PACKET_BINARY or PACKET_ASCII	
ActPortNumber＊3	0	IBM-PC/AT compatible side port number	
ActStationNumber＊4	255 (0xFF)	Fixed to 0xFF	Target station side module station number
ActTimeOut	10000	Any value specified by user in ms units	

＊3: 0 ..... The free port number of the IBM-PC/AT compatible is assigned automatically.
Other than 0 ..... The specified port number is used to generate the UDP socket.
Do not use 1 to 1024 of ActPortNumber.

＊4: Note the following points depending on whether the connected station side MELSECNET/10 module is the control station or ordinary station.
When the connected station side MELSECNET/10 module is the control station ... Specify the actual station number of the target station side MELSECNET/10 module in ActStationNumber.
When the connected station side MELSECNET/10 module is the ordinary station ... Always set the target station side MELSECNET/10 module as the control station and specify "0x00" in ActStationNumber.

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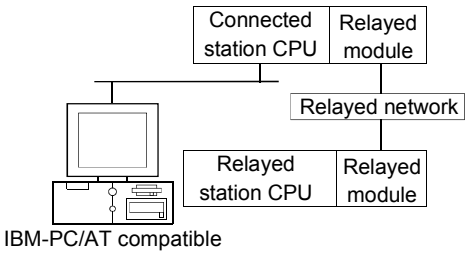
3.3.8 ActQNUDECPUTCP, ActMLQNUDECPUTCP control

The following table indicates the properties possessed by the ActQNUDECPUTCP, ActMLQNUDECPUTCP control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
QnUDE(H)		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	②	②	×	×	×	×
	MELSECNET/H	②	②	×	×	×	×
	MELSECNET/10	②	②	②	②	②	×
	MELSECNET(II)	×	×	②	②	②	×
	Ethernet	②	②	×	×	×	×
	Computer link	③＊2	×	×	②	×	×
	CC-Link	④	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2: The Redundant CPU is inaccessible to the computer link module which is on the main base.

(3) Property list

Property	Default Value	Property Patterns			
		①	②	③	④
ActCpuType	144 (CPU_Q03UDECPU)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF
ActDidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActDsidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActHostAddress	1.1.1.1	Host name or IP address of connected station side module			
ActIntelligentPreferenceBit	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station Q mode : 0x01 Not Q mode : 0x00	Target station Q mode : 0x01 Not Q mode : 0x00

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Property	Default Value	Property Patterns			
		①	②	③	④
ActIONumber＊3	1023 (0x3FF)	For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber＊4	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Multidrop channel number	Fixed to 0x00
ActNetworkNumber＊5	0 (0x00)	Fixed to 0x00	Network number of target station side module	Fixed to 0x00	Fixed to 0x00
ActPassword	Empty	Password set to the connected station side			
ActStationNumber＊5	0 (0x00)	Fixed to 0xFF	Target station side module station number	Fixed to 0xFF	Fixed to 0xFF
ActThroughNetworkType	0 (0x00)	Refer to the property [ActThroughNetworkType] in Section 3.2.			
ActTimeOut	10000	Any value specified by user in ms units.			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number	Target station side module station number

＊3: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊4: Specify the following as the channel No. to be multidrop-linked.
0: Use default channel of module.
1: Channel 1
2: Channel 2

＊5: For the property pattern of ① or ②, specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

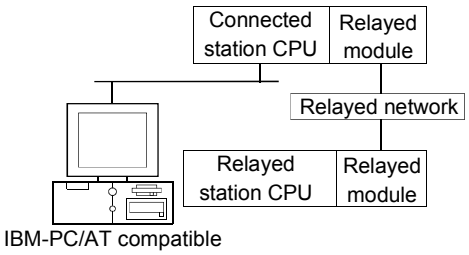
3.3.9 ActQNUDECPUUDP, ActMLQNUDECPUUDP control

The following table indicates the properties possessed by the ActQNUDECPUUDP, ActMLQNUDECPUUDP control and their default values.

POINT

This control can also make direct communication without specifying the IP address of the connected station (Built-in Ethernet port QCPU).

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
QnUDE(H)		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	②	②	×	×	×	×
	MELSECNET/H	②	②	×	×	×	×
	MELSECNET/10	②	②	②	②	②	×
	MELSECNET(II)	×	×	②	②	②	×
	Ethernet	②	②	×	×	×	×
	Computer link	③＊2	×	×	②	×	×
	CC-Link	④	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 :Including motion controller CPU
＊2: The Redundant CPU is inaccessible to the computer link module which is on the main base.

(3) Property list

Property	Default Value	Property Patterns			
		①	②	③	④
ActCpuType	144 (CPU_Q03UDECPU)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF
ActDidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActDsidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActHostAddress	1.1.1.1	Host name or IP address of connected station side CPU ＊3			
ActIntelligentPreferenceBit	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station Q mode : 0x01 Not Q mode : 0x00	Target station Q mode : 0x01 Not Q mode : 0x00

＊3: Invalid with direct communication without specifying the IP address.

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Property	Default Value	Property Patterns			
		①	②	③	④
ActIONumber＊4	1023 (0x3FF)	For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber＊5	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Multidrop channel number	Fixed to 0x00
ActNetworkNumber＊6	0 (0x00)	Fixed to 0x00	Network number of target station side module	Fixed to 0x00	Fixed to 0x00
ActPassword	Empty	Password set to the connected station side			
ActStationNumber＊6	0 (0x00)	Fixed to 0xFF	Target station side module station number	Fixed to 0xFF	Fixed to 0xFF
ActThroughNetworkType	0 (0x00)	Refer to the property [ActThroughNetworkType] in Section 3.2.			
ActTimeOut	10000	Any value specified by user in ms units.			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number	Target station side module station number
ActDirectConnectBit	0 (0x00)	Communication with IP address : 0x00 Direct communication without IP address : 0x01			

＊4: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊5: Specify the following as the channel No. to be multidrop-linked.

0: Use default channel of module.

1: Channel 1

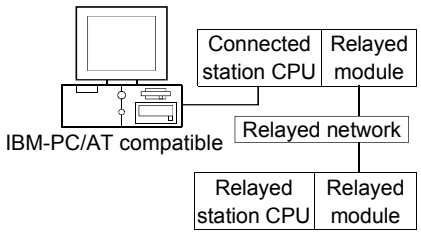
2: Channel 2

＊6: For the property pattern of ① or ②, specify the value set in the target station side parameter for ActNetworkNumber and ActStationNumber.

3.3.10 ActQCPUQ, ActMLQCPUQ control

The following table indicates the properties possessed by the ActQCPUQ, ActMLQCPUQ control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
QCPU (Q mode)		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	②	②	×	×	×	×
	MELSECNET/H	②	②	×	×	×	×
	MELSECNET/10	②	②	②	②	②	×
	MELSECNET(II)	×	×	×	×	×	×
	Ethernet	②	②	×	②	×	×
	Computer link	③＊4	×	×	③	×	×
	CC-Link	④	×	④＊2	④＊2	④＊2	④＊3

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Use the QnA or ACPU side CC-Link module whose ROM version is "S" or later.
＊3 : Compatible with FX_{3G} and $FX_{3U(C)}$, and within the own network.
＊4 : The Redundant CPU is inaccessible to the computer link module which is on the main base.

(3) Property list

Property	Default Value	Property Patterns			
		①	②＊5	③	④
ActBaudRate	19200 (BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200			
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.			
ActCpuType	34 (CPU_Q02CPU)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF

＊5: Note the following points when making access via the Ethernet module (Q series-compatible E71, QE71).
- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side Q series-compatible E71 or QE71.
- Set the "Station No.↔IP information" in the parameter setting of the Q series-compatible E71 or QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

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Property	Default Value	Property Patterns			
		①	②＊7	③	④
ActDidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActDisdPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActIntelligentPreferenceBit	0 (0x00)	Fixed to 0x00	Fixed to 0x00	0x01 (target station is QCPU (Q mode), 0x00 (target station is other than QCPU (Q mode))	0x01 (target station is QCPU (Q mode), 0x00 (target station is other than QCPU (Q mode))
ActIONumber＊6	1023 (0x3FF)	For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber＊8	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Multidrop channel number	Fixed to 0x02
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00	Fixed to 0x00
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Fixed to 0xFF	Fixed to 0xFF
ActThroughNetworkType	0 (0x00)	Refer to the property [ActThroughNetworkType] in Section 3.2.			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number	Target station side module station number

＊6: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊7: Note the following points when making access via the Ethernet module (Q series-compatible E71, QE71).

- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side Q series-compatible E71 or QE71.
- Set the "Station No.↔IP information" in the parameter setting of the Q series-compatible E71 or QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

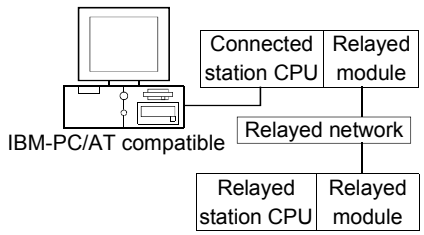
＊8: Specify the following as the channel No. to be multidrop-linked.

0: Use default channel of module.
1: Channel 1
2: Channel 2

3.3.11 ActQCPUA, ActMLQCPUA control

The following table indicates the properties possessed by the ActQCPUA, ActMLQCPUA control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
QCPU (A mode)		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	②	×	②	×
	MELSECNET(II)	×	×	③	×	③	×
	Ethernet	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

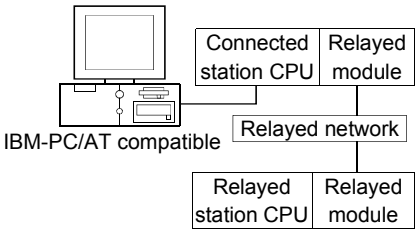
(3) Property list

Property	Default Value	Property Patterns		
		①	②	③
ActBaudRate	9600 (BAUDRATE_9600)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200		
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.		
ActCpuType	321 (CPU_Q02CPU_A)	CPU type corresponding to target station		
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number		
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Target station side module station number
ActTimeOut	10000	Any value specified by user in ms units.		

3.3.12 ActQnACPU, ActMLQnACPU control

The following table indicates the properties possessed by the ActQnACPU, ActMLQnACPU control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
QnACPU		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	×	②	×	×
	MELSECNET(II)	×	×	×	③	×	×
	Ethernet	×	×	×	②	×	×
	Computer link	×	×	×	④	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(3) Property list

Property	Default Value	Property Patterns			
		①	②＊3	③	④
ActBaudRate	19200 (BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400＊4			
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.			
ActCpuType	17 (CPU_Q2ACPU)	CPU type corresponding to target station			
ActIONumber＊2	1023 (0x3FF)	Fixed to 0x3FF	Fixed to 0x3FF	Fixed to 0x3FF	Connected station side module I/O address
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00	Fixed to 0x00
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Target station side module station number	Fixed to 0xFF
ActTimeOut	10000	Any value specified by user in ms units.			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00	Target station side module station number

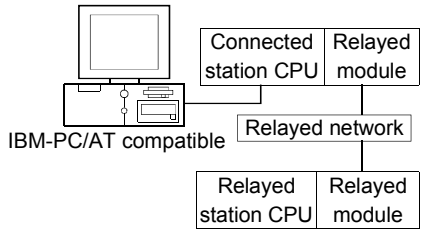
＊2: As the I/O address, specify the value found by dividing the actual first I/O number by 16.
＊3: Note the following points when making access via the Ethernet module (QE71).
- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side QE71.
- Set the "Station No.↔IP information" in the parameter setting of the QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

＊4: Usable for only the QnACPU version 9707B or later.

3.3.13 ActACPU, ActMLACPU control

The following table indicates the properties possessed by the ActACPU, ActMLACPU control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
ACPU ＊1		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	②	×	②	×
	MELSECNET(II)	×	×	③	×	③	×
	Ethernet	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(3) Property list

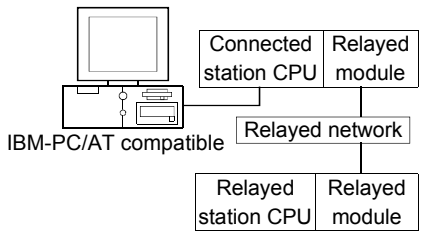
Property	Default Value	Property Patterns		
		①	②	③
ActBaudRate	9600 (BAUDRATE_9600)	Fixed to BAUDRATE_9600 ＊2		
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.		
ActCpuType	262 (CPU_A1NCPU)	CPU type corresponding to target station		
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number		
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Target station side module station number
ActTimeOut	10000	Any value specified by user in ms units.		

＊2: BAUDRATE_9600 may be used only when the connected station CPU is the A2USHCPU-S1.

3.3.14 ActFXCPU, ActMLFXCPU control

The following table indicates the properties possessed by the ActFXCPU, ActMLFXCPU control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU / FXCPU	Relayed Network	Relayed Station CPU					
		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	×	×	×	×
	MELSECNET(II)	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(3) Property list

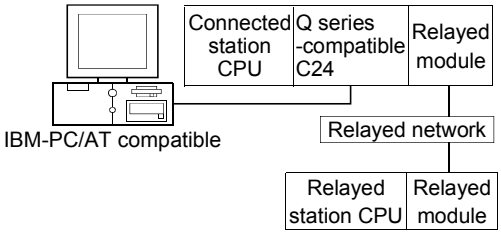
Property	Default Value	Property Patterns	
		①	
ActBaudRate	9600 (CBR _9600)	$FX_{0(S)}$, FX_{0N}, FX_{1}, FX_{1S}, $FX_{2(C)}$	Fixed to CBR_9600
		$FX_{1N(C)}$, $FX_{2N(C)}$	CBR_9600, CBR_19200
		FX_{3UC}, FX_{3G}	CBR_9600, CBR_19200, CBR_38400, CBR_57600, CBR_115200
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.	
ActCpuType	513 (CPU_FX0CPU)	CPU type corresponding to target station	
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number	
ActTimeOut	10000	Any value specified by user in ms units.	

3.3.15 ActQJ71C24, ActMLQJ71C24 control

The following table indicates the properties possessed by the ActQJ71C24, ActMLQJ71C24 control and their default values.

(1) When there is relayed module in addition to connected station side Q series-compatible C24

(a) Configuration



(b) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
QCPU (Q mode)		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	②	②	×	×	×	×
	MELSECNET/H	②	②	×	×	×	×
	MELSECNET/10	②	②	②	②	②	×
	MELSECNET(II)	×	×	×	×	×	×
	Ethernet	②	②	×	②	×	×
	Computer link	③＊3	×	×	③	×	×
	CC-Link	④	×	④	④	④	④＊2

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Compatible with FX_{3G} and $FX_{3U(C)}$, and within the own network.
＊3 : The Redundant CPU is inaccessible to the computer link module which is on the main base.

(c) Property list

Property	Default Value	Property Patterns			
		①	②＊4	③	④
ActBaudRate	19200 (BAUDRATE_19200)	Match to the setting of Q series-compatible C24.			
ActConnectUnitNumber	0 (0x00)	Connected station side module station number			
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.			
ActCpuType	34 (CPU_Q02CPU)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF

＊4: Note the following points when making access via the Ethernet module (Q series-compatible E71, QE71).
- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side Q series-compatible E71 or QE71.
- Set the "Station No.↔IP information" in the parameter setting of the Q series-compatible E71 or QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

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Property	Default Value	Property Patterns			
		①	②＊6	③	④
ActDidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActDisdPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActIntelligentPreferenceBit	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00
ActIONumber＊5	1023 (0x3FF)	For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Connected station side module I/O address	Connected station side module I/O address
ActMultiDropChannelNumber＊7	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Multidrop channel number	Fixed to 0x00
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00	Fixed to 0x00
ActParity	1 (ODD_PARITY)	Match to the setting of Q series-compatible C24.			
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Fixed to 0xFF	Fixed to 0xFF
ActThroughNetworkType	0 (0x00)	Refer to the property [ActThroughNetworkType] in Section 3.2.			
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number	Target station side module station number

＊5: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊6: Note the following points when making access via the Ethernet module (Q series-compatible E71, QE71).

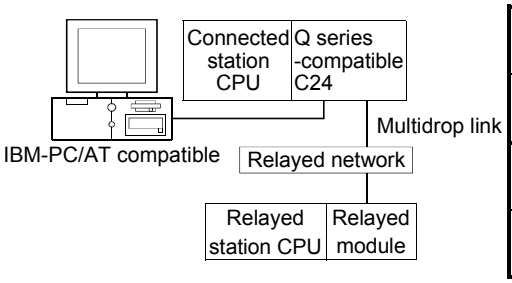
- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side Q series-compatible E71 or QE71.
- Set the "Station No.↔IP information" in the parameter setting of the Q series-compatible E71 or QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

＊7: Specify the following as the channel No. to be multidrop-linked.

0: Use default channel of module.
1: Channel 1
2: Channel 2

(2) When connected station side Q series-compatible C24 is used for multidrop link with relayed module

(a) Configuration



(b) Property patterns

Connected Station CPU		Relayed Network	Relayed Station CPU					
QCPU (Q mode)			QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
Independent mode＊2	①	Computer link	②	×	×	②	×	×
Synchronous mode＊2	×		③	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Indicates the CH2 side setting (CH1 side fixed to independent mode)

(c) Property list

Property	Default Value	Property Patterns		
		①	②	③
ActBaudRate	19200 (BAUDRATE_19200)	Match to the setting of Q series-compatible C24.		
ActConnectUnitNumber	0 (0x00)	Connected station side module station number		
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.		
ActCpuType	34 (CPU_Q02CPU)	CPU type corresponding to target station		
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3	Fixed to 0x00
ActDidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x00	Fixed to 0x01
ActDsidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x00	Fixed to 0x01
ActIntelligentPreferenceBit	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00

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Property	Default Value	Property Patterns		
		①	②	③
ActIONumber＊3	1023 (0x3FF)	For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3	Connected station side module I/O address	Fixed to 0x3FF
ActMultiDropChannelNumber＊4	0 (0x00)	Fixed to 0x00	Multidrop channel number	Fixed to 0x00
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00
ActParity	1 (ODD_PARITY)	Match to the setting of Q series-compatible C24.		
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number		
ActStationNumber	255 (0xFF)	Fixed to 0x0FF	Fixed to 0x0FF	Fixed to 0x0FF
ActThroughNetworkType	0 (0x00)	Refer to the property [ActThroughNetworkType] in Section 3.2.		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0 (0x00)	Fixed to 0x00	Target station side module station number	Fixed to 0x00

＊3: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊4: Specify the following as the channel No. to be multidrop-linked.

0: Use default channel of module.

1: Channel 1

2: Channel 2

POINT

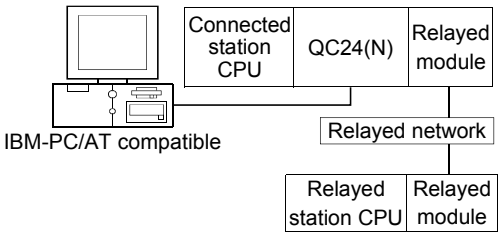
When the connected station side Q series-compatible C24 is set to the synchronous mode, always set the "sumcheck (SW06)" transmission specification software switch setting of the Q series-compatible C24 parameters to Yes (ON). If it is set to No (OFF), a communication error will occur, disabling proper communication.

3.3.16 ActAJ71QC24, ActMLAJ71QC24 control

The following table indicates the properties possessed by the ActAJ71QC24, ActMLAJ71QC24 control and their default values.

(1) When there is relayed module in addition to connected station side QC24(N)

(a) Configuration



(b) Property patterns

Connected Station CPU / QnACPU	Relayed Network	Relayed Station CPU: QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	×	②	×	×
	MELSECNET(II)	×	×	×	③	×	×
	Ethernet	×	×	×	②	×	×
	Computer link	×	×	×	④	×	×
	CC-Link	×	×	×	④	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

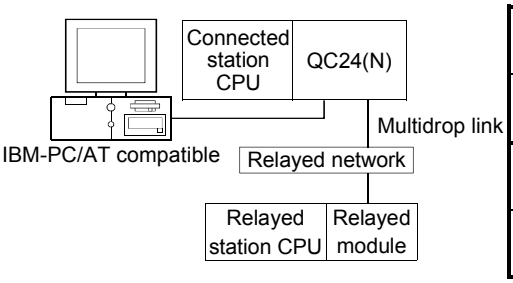
(c) Property list

Property	Default Value	Property Patterns ①	②＊3	③	④
ActBaudRate	19200 (BAUDRATE_19200)	Match to the setting of QC24(N).			
ActConnectUnitNumber	0 (0x00)	Connected station side module station number			
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.			
ActCpuType	17 (CPU_Q2ACPU)	CPU type corresponding to target station			
ActIONumber＊2	1023 (0x3FF)	Fixed to 0x3FF	Fixed to 0x3FF	Fixed to 0x3FF	Connected station side module I/O address
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00	Fixed to 0x00
ActParity	1 (ODD_PARITY)	Match to the setting of QC24(N).			
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Target station side module station number	Fixed to 0xFF
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00	Target station side module station number

＊2: As the I/O address, specify the value found by dividing the actual first I/O number by 16.
＊3: Note the following points when making access via the Ethernet module (QE71).
- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side QE71.
- Set the "Station No.↔IP information" in the parameter setting of the QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

(2) When connected station side QC24(N) is used for multidrop link with relayed module

(a) Configuration



(b) Property patterns

Connected Station CPU		Relayed Network	Relayed Station CPU					
QnACPU			QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
Independent mode＊2	①	Computer link	×	×	×	②	×	×
Synchronous mode＊2			×	×	×	③	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Indicates the CH2 side setting (CH1 side fixed to independent mode)

(c) Property list

Property	Default Value	Property Patterns		
		①	②	③
ActBaudRate	19200 (BAUDRATE_19200)	Match to the setting of QC24(N).		
ActConnectUnitNumber	0 (0x00)	Connected station side module station number		
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.		
ActCpuType	17 (CPU_Q2ACPU)	CPU type corresponding to target station		
ActIONumber＊3	1023 (0x3FF)	Fixed to 0x3FF	Connected station side module I/O address	Fixed to 0x3FF
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00
ActParity	1 (ODD_PARITY)	Match to the setting of QC24(N).		
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number		
ActStationNumber	255 (0xFF)	Fixed to 0x0FF	Fixed to 0x0FF	Fixed to 0x0FF
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0 (0x00)	Fixed to 0x00	Target station side module station number	Fixed to 0x00

＊3: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

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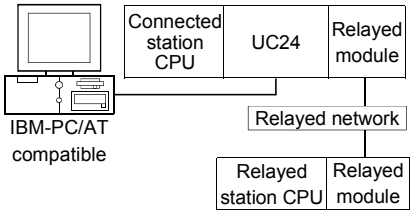
3.3.17 ActAJ71UC24, ActMLAJ71UC24 control

The following table indicates the properties possessed by the ActAJ71UC24, ActMLAJ71UC24 control and their default values.

(1) When there is relayed module in addition to connected station side UC24

(a) Configuration



(b) Property patterns

Connected Station CPU			Relayed Network	Relayed Station CPU					
QCPU (A mode)	QnA CPU	ACPU ＊1		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	① ＊2	①	CC-Link IE Controller Network	×	×	×	×	×	×
			MELSECNET/H	×	×	×	×	×	×
			MELSECNET/10	×	×	②	② ＊2	②	×
			MELSECNET(II)	×	×	③	③ ＊2	③	×
			Ethernet	×	×	×	×	×	×
			Computer link	×	×	×	×	×	×
			CC-Link	×	×	×	×	×	×

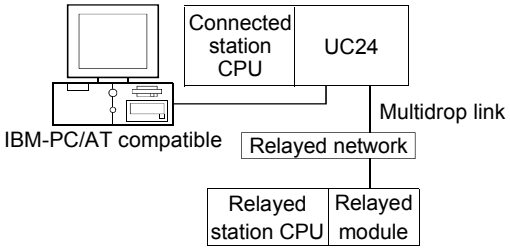
○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Operates as the one equivalent to AnACPU.

(c) Property list

Property	Default Value	Property Patterns		
		①	②	③
ActBaudRate	19200 (BAUDRATE_19200)	Match to the setting of UC24.		
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.		
ActCpuType	262 (CPU_A1NCPU)	CPU type corresponding to target station		
ActDataBits	8 (DATABIT_8)	Match to the setting of UC24.		
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00
ActParity	1 (ODD_PARITY)	Match to the setting of UC24.		
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number		
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Target station side module station number
ActStopBits	0 (STOPBIT_ONE)	Match to the setting of UC24.		
ActSumCheck	1 (SUM_CHECK)	Match to the setting of UC24.		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0 (0x00)	Target station side module station number	Connected station side module station number	Connected station side module station number

(2) When connected station side UC24 is used for multidrop link with relayed module

(a) Configuration



(b) Property patterns

Connected Station CPU		Relayed Network	Relayed Station CPU					
QCPU (A mode), QnACPU＊3, ACPU＊1			QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
Independent mode＊2	①	Computer link	×	×	①	① ＊3	①	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Use the mode setting switch and main channel setting to make setting.
＊3 : Operates as the one equivalent to AnACPU.

(c) Property list

Property	Default Value	Property Patterns
		①
ActBaudRate	19200 (BAUDRATE_19200)	Match to the setting of UC24.
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.
ActCpuType	262 (CPU_A1NCPU)	CPU type corresponding to target station
ActDataBits	8 (DATABIT_8)	Match to the setting of UC24.
ActNetworkNumber	0 (0x00)	Fixed to 0x00
ActParity	1 (ODD_PARITY)	Match to the setting of UC24.
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number
ActStationNumber	255 (0xFF)	Fixed to 0x0FF
ActStopBits	0 (STOPBIT_ONE)	Match to the setting of UC24.
ActSumCheck	1 (SUM_CHECK)	Match to the setting of UC24.
ActTimeOut	10000	Any value specified by user in ms units
ActUnitNumber	0 (0x00)	Target station side module station number

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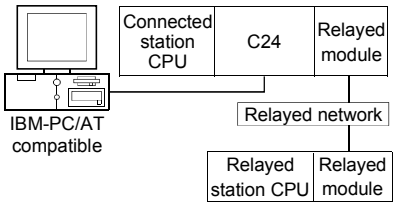
3.3.18 ActAJ71C24, ActMLAJ71C24 control

The following table indicates the properties possessed by the ActAJ71C24, ActMLAJ71C24 control and their default values.

(1) When there is relayed module in addition to connected station side C24

(a) Configuration



(b) Property patterns

Connected Station CPU			Relayed Network	Relayed Station CPU					
QCPU (A mode)	QnA CPU	ACPU ＊1		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	①＊2	①	CC-Link IE Controller Network	×	×	×	×	×	×
			MELSECNET/H	×	×	×	×	×	×
			MELSECNET/10	×	×	②	②＊2	②	×
			MELSECNET(II)	×	×	②	②＊2	②	×
			Ethernet	×	×	×	×	×	×
			Computer link	×	×	×	×	×	×
			CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Operates as the one equivalent to AnACPU.

(c) Property list

Property	Default Value	Property Patterns	
		①	②＊4
ActBaudRate	19200 (BAUDRATE_19200)	Match to the setting of C24.	
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.	
ActCpuType	262 (CPU_A1NCPU)	CPU type corresponding to target station	
ActDataBits	8 (DATABIT_8)	Match to the setting of C24.	
ActParity	1 (ODD_PARITY)	Match to the setting of C24.	
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number	
ActStationNumber＊3	255 (0xFF)	Fixed to 0xFF	Target station side module station number
ActStopBits	0 (STOPBIT_ONE)	Match to the setting of C24.	
ActSumCheck	1 (SUM_CHECK)	Match to the setting of C24.	
ActTimeOut	10000	Any value specified by user in ms units	
ActUnitNumebr	0 (0x00)	Target station side module station number	Connected station side module station number

＊3: Note the following points depending on whether the connected station side MELSECNET/10 module is the control station or ordinary station.
When the connected station side MELSECNET/10 module is the control station... Specify the actual station number of the target station side MELSECNET/10 module in ActStationNumber.
When the connected station side MELSECNET/10 module is the ordinary station... Always set the target station side MELSECNET/10 module as the control station and specify "0x00" in ActStationNumber.

＊4: Access via network is enabled only to the network on the side specified in "valid module for another station access" in the connected station side network parameters.

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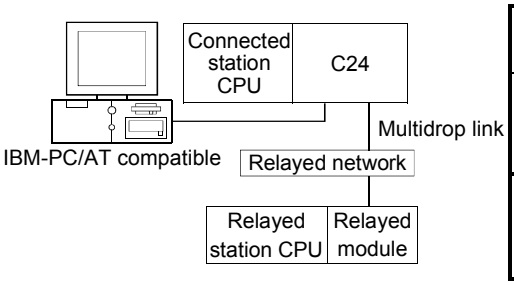
(2) When connected station side C24 is used for multidrop link with relayed module

(a) Configuration



(b) Property patterns

Connected Station CPU		Relayed Network	Relayed Station CPU					
QCPU (A mode), QnACPU＊3, ACPU＊1			QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
Independent mode＊2	①	Computer link	×	×	①	① ＊3	①	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Use the mode setting switch and main channel setting to make setting.
＊3 : Operates as the one equivalent to AnACPU.

(c) Property list

Property	Default Value	Property Patterns
		①
ActBaudRate	19200 (BAUDRATE_19200)	Match to the setting of C24.
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.
ActCpuType	262 (CPU_A1NCPU)	CPU type corresponding to target station
ActDataBits	8 (DATABIT_8)	Match to the setting of C24.
ActParity	1 (ODD_PARITY)	Match to the setting of C24.
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number
ActStationNumber	255 (0xFF)	Fixed to 0x0FF
ActStopBits	0 (STOPBIT_ONE)	Match to the setting of C24.
ActSumCheck	1 (SUM_CHECK)	Match to the setting of C24.
ActTimeOut	10000	Any value specified by user in ms units
ActUnitNumebr	0 (0x00)	Target station side module station number

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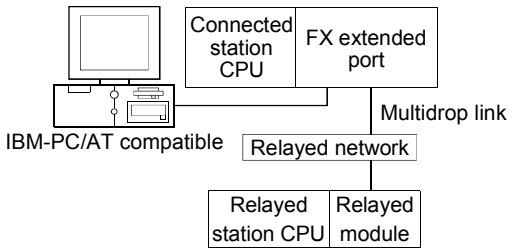
3.3.19 ActFX485BD, ActMLFX485BD control

The following table indicates the properties possessed by the ActFX485BD, ActMLFX485BD control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
FXCPU		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	×	×	×	×
	MELSECNET(II)	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Computer link	×	×	×	×	×	①
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

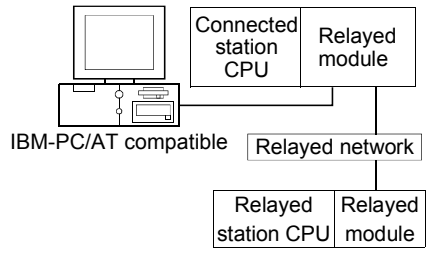
(3) Property list

Property	Default Value	Property Patterns
		①
ActBaudRate	19200 (BAUDRATE_19200)	Match to the setting of FX extended port
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable
ActCpuTimeOut	4	Any value specified by user in 10ms units
ActCpuType	0x205 (CPU_FX2NCPU)	CPU type corresponding to target station
ActDataBits	8 (DATABIT_8)	Match to the setting of FX extended port
ActParity	1 (ODD_PARITY)	Match to the setting of FX extended port
ActPortNumber	0x01 (PORT_1)	IBM-PC/AT compatible side COM port number
ActStopBits	0 (STOPBIT_ONE)	Match to the setting of FX extended port
ActSumCheck	1(SUM_CHECK)	Match to the setting of FX extended port
ActTimeOut	10000	Any value specified by user in ms units
ActUnitNumber	0x00	Target station side module station number

3.3.20 ActFXCPUUSB, ActMLFXCPUUSB control

The following table indicates the properties possessed by the ActFXCPUUSB, ActMLFXCPUUSB control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
FXCPU		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	×	×	×	×
	MELSECNET(II)	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(3) Property list

Property	Default Value	Property Patterns
		①
ActCpuType	0x209 (CPU_FX3GCPU)	CPU type corresponding to target station
ActTimeOut	10000	Any value specified by user in ms units

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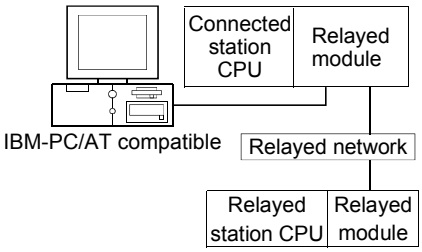
3.3.21 ActQCPUQUSB, ActMLQCPUQUSB control

The following table indicates the properties possessed by the ActQCPUQUSB, ActMLQCPUQUSB control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU		Relayed Network	Relayed Station CPU					
QCPU (Q mode)	QS CPU		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	⑤	CC-Link IE Controller Network	②	②	×	×	×	×
		MELSECNET/H	②	②	×	×	×	×
		MELSECNET/10	②	②	②	②	②	×
		MELSECNET(II)	×	×	×	×	×	×
		Ethernet	②	②	×	②	×	×
		Computer link	③＊4	×	×	③	×	×
		CC-Link	④	×	④＊2	④＊2	④＊2	④＊3

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Use the QnA or ACPU side CC-Link module whose ROM version is "S" or later.
＊3 : Compatible with FX_{3G} and $FX_{3U(C)}$, and within the own network.
＊4 : The Redundant CPU is inaccessible to the computer link module which is on the main base.

(3) Property list

Property	Default Value	Property Patterns				
		①	②＊5	③	④	⑤
ActCpuType	34 (CPU_Q02CPU)	CPU type corresponding to target station				
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Fixed to 0x00
ActDidPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00	Fixed to 0x01
ActDisdPropertyBit	1 (0x01)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00	Fixed to 0x01
ActIntelligentPreferenceBit	0 (0x00)	Fixed to 0x00	Fixed to 0x00	0x01 (target station is QCPU (Q mode), 0x00 (target station is other than QCPU (Q mode))	0x01 (target station is QCPU (Q mode), 0x00 (target station is other than QCPU (Q mode))	Fixed to 0x00

＊5: Note the following points when making access via the Ethernet module (Q series-compatible E71, QE71).
- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side Q series-compatible E71 or QE71.
- Set the "Station No.↔IP information" in the parameter setting of the Q series-compatible E71 or QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

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Property	Default Value	Property Patterns				
		①	②＊7	③	④	⑤
ActIONumber＊6	1023 (0x3FF)	For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Connected station side module I/O address	Connected station side module I/O address	Connected CPU: 0x3FF
ActMultiDropChannelNumber＊8	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Multidrop channel number	Fixed to 0x00	Fixed to 0x00
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Fixed to 0xFF	Fixed to 0xFF	Fixed to 0xFF
ActThroughNetworkType	0 (0x00)	Refer to the property [ActThroughNetworkType] in Section 3.2.				Fixed to 0x00
ActTimeOut	10000	Any value specified by user in ms units				
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number	Target station side module station number	Fixed to 0x00

＊6: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊7: Note the following points when making access via the Ethernet module (Q series-compatible E71, QE71).

- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side Q series-compatible E71 or QE71.
- Set the "Station No.↔IP information" in the parameter setting of the Q series-compatible E71 or QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

＊8: Specify the following as the channel No. to be multidrop-linked.

0: Use default channel of module.
1: Channel 1
2: Channel 2

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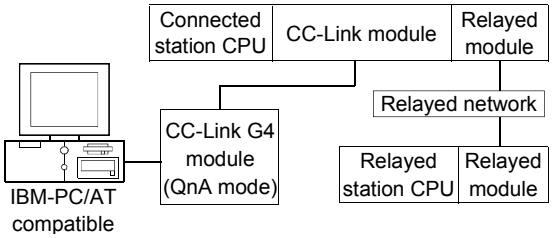
3.3.22 ActCCG4Q, ActMLCCG4Q control

The following table indicates the properties possessed by the ActCCG4Q, ActMLCCG4Q control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
QCPU (Q mode)		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	②	②	×	×	×	×
	MELSECNET/H	②	②	×	×	×	×
	MELSECNET/10	②	②	②	②	②	×
	MELSECNET(II)	×	×	×	×	×	×
	Ethernet	②	②	×	②	×	×
	Computer link	×	×	×	③	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(3) Property list

Property	Default Value	Property Patterns		
		①	②＊3	③
ActBaudRate	19200 (BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200		
ActConnectUnitNumber	0 (0x00)	Connected station side module station number		
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.		
ActCpuType	34 (CPU_Q2CPU)	CPU type corresponding to target station		
ActIONumber＊2	1023 (0x3FF)	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Connected station side relayed module I/O address
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number		
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Fixed to 0xFF
ActThroughNetworkType	0 (0x00)	Refer to the property [ActThroughNetworkType] in Section 3.2.		
ActTimeOut	10000	Any value specified by user in ms units		
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number

＊2: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

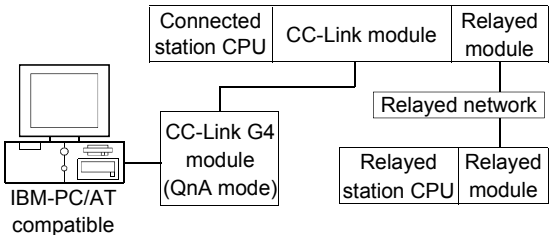
＊3: Note the following points when making access via the Ethernet module (QE71).

- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side QE71.
- Set the "Station No.↔IP information" in the parameter setting of the QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

3.3.23 ActCCG4QnA, ActMLCCG4QnA control

The following table indicates the properties possessed by the ActCCG4QnA, ActMLCCG4QnA control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
QnACPU		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	×	②	×	×
	MELSECNET(II)	×	×	×	③	×	×
	Ethernet	×	×	×	②	×	×
	Computer link	×	×	×	④	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(3) Property list

Property	Default Value	Property Patterns			
		①	②＊3	③	④
ActBaudRate	19200 (BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400			
ActConnectUnitNumber	0 (0x00)	Connected station side CC-Link module station number			
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.			
ActCpuType	17 (CPU_Q2ACPU)	CPU type corresponding to target station			
ActIONumber＊2	1023 (0x3FF)	Fixed to 0x3FF	Fixed to 0x3FF	Fixed to 0x3FF	Connected station side relayed module I/O address
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00	Fixed to 0x00
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Target station side module station number	Fixed to 0xFF
ActTimeOut	10000	Any value specified by user in ms units			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00	Target station side module station number

＊2: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊3: Note the following points when making access via the Ethernet module (QE71).

- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side QE71.
- Set the "Station No.↔IP information" in the parameter setting of the QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

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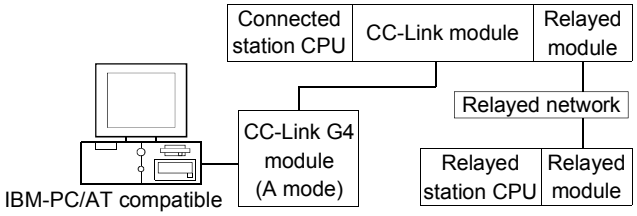
3.3.24 ActCCG4A, ActMLCCG4A control

The following table indicates the properties possessed by the ActCCG4A, ActMLCCG4A control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU			Relayed Network	Relayed Station CPU					
QCPU (A mode)	QnA CPU	ACPU ＊1		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	×	①	CC-Link IE Controller Network	×	×	×	×	×	×
			MELSECNET/H	×	×	×	×	×	×
			MELSECNET/10	×	×	×	×	×	×
			MELSECNET(II)	×	×	×	×	×	×
			Ethernet	×	×	×	×	×	×
			Computer link	×	×	×	×	×	×
			CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(3) Property list

Property	Default Value	Property Patterns
		①
ActControl	8 (TRC_DTR_OR_RTS)	Depending on used cable.
ActCpuType	262 (CPU_A1NCPU)	CPU type corresponding to target station
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number
ActStationNumber	0 (0x00)	Target station side module station number
ActTimeOut	10000	Any value specified by user in ms units

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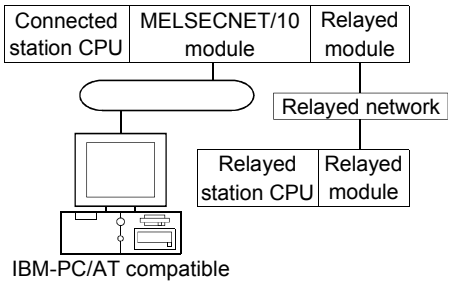
3.3.25 ActMnet10BD, ActMLMnet10BD control

The following table indicates the properties possessed by the ActMnet10BD, ActMLMnet10BD control and their default values.

(1) When connected station CPU is QCPU (Q mode)

(a) Configuration



(b) Property patterns

Own Board	Connected Station CPU	Relayed Network	Relayed Station CPU					
	QCPU (Q mode)		QCPU (Q mode)	QS CPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FX CPU
①	②	CC-Link IE Controller Network	②	②	×	×	×	×
		MELSECNET/H	②	②	×	×	×	×
		MELSECNET/10	②	②	②	②	②	×
		MELSECNET(II)	×	×	×	×	×	×
		Ethernet	②	②	×	×	×	×
		Computer link	③＊2	×	×	③	×	×
		CC-Link	④	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : The Redundant CPU is inaccessible to the computer link module which is on the main base.

(c) Property list

Property	Default Value	Property Patterns			
		①	②	③	④
ActCpuType	1025 (CPU_BOARD)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU 0x3FF fixed	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU 0x3FF fixed
ActDidPropertyBit	0 (0x00)	Fixed to 0x00	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00

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Property	Default Value	Property Patterns			
		①	②	③	④
ActDsidPropertyBit	0 (0x00)	Fixed to 0x00	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActIONumber＊3	0 (0x00)	Fixed to 0x00	For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU 0x3FF fixed	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber＊4	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Multidrop channel number	Fixed to 0x00
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Connected station side module network number	Connected station side module network number
ActPortNumber	1 (PORT_1)	Board No. of IBM-PC/AT compatible side MELSECNET/10 board, PORT 1 to PORT 4 (first to fourth boards)			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Connected station side module station number	Connected station side module station number
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number	Target station side module station number

＊3 : As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊4 : Specify the following as the channel No. to be multidrop-linked.

0: Use default channel of module.

1: Channel 1

2: Channel 2

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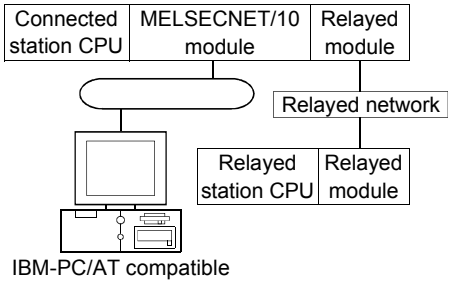
(2) When connected station CPU is QCPU (A mode) or ACPU

(a) Configuration



(b) Property patterns

Own Board	Connected Station CPU		Relayed Network	Relayed Station CPU					
	QCPU (A mode)	ACPU＊1		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	②	②	CC-Link IE Controller Network	×	×	×	×	×	×
			MELSECNET/H	×	×	×	×	×	×
			MELSECNET/10	③	③	②	④	②	×
			MELSECNET(II)	×	×	×	×	×	×
			Ethernet	×	×	×	×	×	×
			Computer link	×	×	×	×	×	×
			CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(c) Property list

Property	Default Value	Property Patterns			
		①	②	③	④
ActCpuType	1025 (CPU_BOARD)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00			
ActDidPropertyBit	0 (0x00)	Fixed to 0x00		Fixed to 0x01	Fixed to 0x00
ActDsidPropertyBit	0 (0x00)	Fixed to 0x00		Fixed to 0x01	Fixed to 0x00
ActIONumber＊2	0 (0x00)	Fixed to 0x00		Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU 0x3FF fixed	Fixed to 0x3FF
ActMultiDropChannelNumber	0 (0x00)	Fixed to 0x00			
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number		
ActPortNumber	1 (PORT_1)	Board No. of IBM-PC/AT compatible side MELSECNET/10 board, PORT 1 to PORT 4 (first to fourth boards)			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number		
ActUnitNumber	0 (0x00)	Fixed to 0x00			

＊2: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

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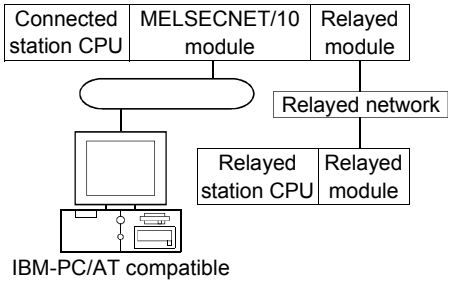
(3) When connected station CPU is QnACPU

(a) Configuration



(b) Property patterns

Own Board	Connected Station CPU	Relayed Network	Relayed Station CPU					
	QnACPU		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	②	CC-Link IE Controller Network	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		MELSECNET/10	③	③	②	②	②	×
		MELSECNET(II)	×	×	×	×	×	×
		Ethernet	×	×	×	②	×	×
		Computer link	×	×	×	④	×	×
		CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(c) Property list

Property	Default Value	Property Patterns			
		①	②	③	④
ActCpuType	1025 (CPU_BOARD)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00			
ActDidPropertyBit	0 (0x00)	Fixed to 0x00		Fixed to 0x01	Fixed to 0x00
ActDsidPropertyBit	0 (0x00)	Fixed to 0x00		Fixed to 0x01	Fixed to 0x00
ActIONumber＊2	0 (0x00)	Fixed to 0x00	Fixed to 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU 0x3FF fixed	Connected station side relayed module I/O address
ActMultiDropChannelNumber	0 (0x00)	Fixed to 0x00			Multidrop channel number
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Target station side module network number	Connected station side module network number
ActPortNumber	1 (PORT_1)	Board No. of IBM-PC/AT compatible side MELSECNET/10 board, PORT 1 to PORT 4 (first to fourth boards)			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Target station side module station number	Connected station side module station number
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00	Target station side module station number

＊2: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

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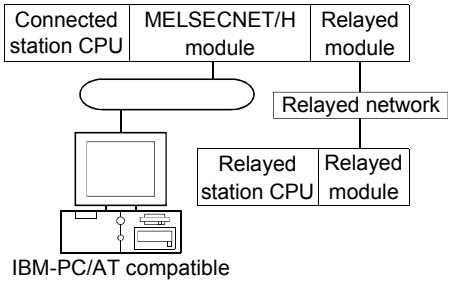
3.3.26 ActMnetHBD, ActMLMnetHBD control

The following table indicates the properties possessed by the ActMnetHBD, ActMLMnetHBD control and their default values.

(1) When access is made via MELSECNET/H mode using QCPU (Q mode) as connected station CPU

(a) Configuration



(b) Property patterns

Own Board	Connected Station CPU		Relayed Network	Relayed Station CPU					
	QCPU (Q mode)	QSCPU		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	②	②＊2	CC-Link IE Controller Network	②	②	×	×	×	×
			MELSECNET/H	②	②	×	×	×	×
			MELSECNET/10	②	②	②	②	②	×
			MELSECNET(II)	×	×	×	×	×	×
			Ethernet	②	②	×	×	×	×
			Computer link	③＊3	×	×	③	×	×
			CC-Link	④	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Relayed stations cannot be accessed through the QSCPU.
＊3 : The Redundant CPU is inaccessible to the computer link module which is on the main base.

(c) Property list

Property	Default Value	Property Patterns			
		①	②	③	④
ActCpuType	1025 (CPU_BOARD)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF

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Property	Default Value	Property Patterns			
		①	②	③	④
ActDidPropertyBit	0 (0x00)	Fixed to 0x00	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActDsidPropertyBit	0 (0x00)	Fixed to 0x00	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActIONumber＊4	0 (0x00)	Fixed to 0x00	For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber ＊5	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Multidrop channel number	Fixed to 0x00
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Connected station side module network number	Connected station side module network number
ActPortNumber	1 (PORT_1)	Board No. of IBM-PC/AT compatible side MELSECNET/H board, PORT 1 to PORT 4 (first to fourth boards)			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Connected station side module station number	Connected station side module station number
ActThroughNetworkType	1 (0x01)	Refer to the property [ActThroughNetworkType] in Section 3.2.			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number	Target station side module station number

＊4 : As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊5 : Specify the following as the channel No. to be multidrop-linked.

0: Use default channel of module.

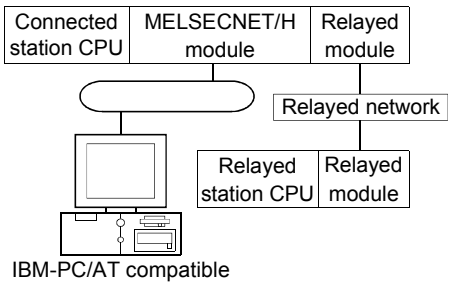
1: Channel 1

2: Channel 2

(2) When access is made via MELSECNET/10 mode using QCPU (Q mode) as connected station CPU

Operates when both the MELSECNET/H board and relayed module are in the MELSECNET/10 mode.

(a) Configuration



(b) Property patterns

Own Board	Connected Station CPU		Relayed Network	Relayed Station CPU					
	QCPU (Q mode)	QSCPU		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	②	②＊2	CC-Link IE Controller Network	②	②	×	×	×	×
			MELSECNET/H	×	×	×	×	×	×
			MELSECNET/10	②	②	②	②	②	×
			MELSECNET(II)	×	×	×	×	×	×
			Ethernet	②	②	×	×	×	×
			Computer link	③＊3	×	×	③	×	×
			CC-Link	④	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Relayed stations cannot be accessed through the QSCPU.
＊3 : The Redundant CPU is inaccessible to the computer link module which is on the main base.

(c) Property list

Property	Default Value	Property Patterns			
		①	②	③	④
ActCpuType	1025 (CPU_BOARD)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF

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Property	Default Value	Property Patterns			
		①	②	③	④
ActDidPropertyBit	0 (0x00)	Fixed to 0x00	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActDsidPropertyBit	0 (0x00)	Fixed to 0x00	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActIONumber＊4	0 (0x00)	Fixed to 0x00	For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Connected station side relayed module I/O address	Connected station side relayed module I/O address
ActMultiDropChannelNumber＊5	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Multidrop channel number	Fixed to 0x00
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Connected station side module network number	Connected station side module network number
ActPortNumber	1 (PORT_1)	Board No. of IBM-PC/AT compatible side MELSECNET/H board, PORT 1 to PORT 4 (first to fourth boards)			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Connected station side module station number	Connected station side module station number
ActThroughNetworkType	1 (0x01)	Fixed to 0x01			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number	Target station side module station number

＊4 : As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊5 : Specify the following as the channel No. to be multidrop-linked.

0: Use default channel of module.

1: Channel 1

2: Channel 2

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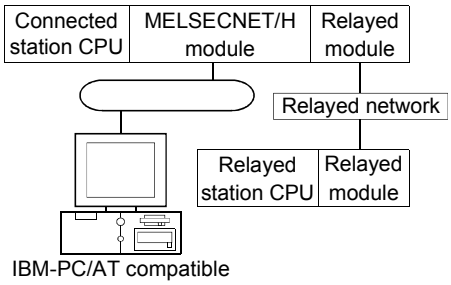
(3) When access is made via MELSECNET/10 mode using QCPU (A mode) or ACPU as connected station CPU

Operates when the MELSECNET/H board is in the MELSECNET/10 mode.

(a) Configuration



(b) Property patterns

Own Board	Connected Station CPU		Relayed Network	Relayed Station CPU					
	QCPU (A mode)	ACPU＊1		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	②	②	CC-Link IE Controller Network	×	×	×	×	×	×
			MELSECNET/H	×	×	×	×	×	×
			MELSECNET/10	③	③	②	④	②	×
			MELSECNET(II)	×	×	×	×	×	×
			Ethernet	×	×	×	×	×	×
			Computer link	×	×	×	×	×	×
			CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

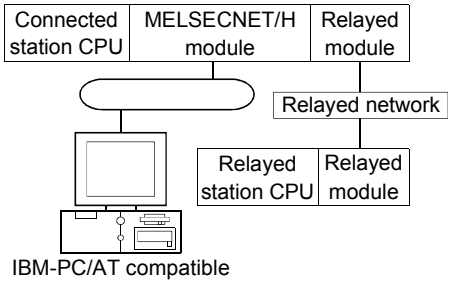
(c) Property list

Property	Default Value	Property Patterns			
		①	②	③	④
ActCpuType	1025 (CPU_BOARD)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00			
ActDidPropertyBit	0 (0x00)	Fixed to 0x00		Fixed to 0x01	Fixed to 0x00
ActDsidPropertyBit	0 (0x00)	Fixed to 0x00		Fixed to 0x01	Fixed to 0x00
ActIONumber	0 (0x00)	Fixed to 0x00		Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Fixed to 0x3FF
ActMultiDropChannelNumber	0 (0x00)	Fixed to 0x00			
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number		
ActPortNumber	1 (PORT_1)	Board No. of IBM-PC/AT compatible side MELSECNET/H board, PORT 1 to PORT 4 (first to fourth boards)			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number		
ActThroughNetworkType	1 (0x01)	Fixed to 0x01			
ActUnitNumber	0 (0x00)	Fixed to 0x00			

(4) When access is made via MELSECNET/10 mode using QnACPU as connected station CPU

Operates when the MELSECNET/H board is in the MELSECNET/10 mode.

(a) Configuration



(b) Property patterns

Own Board	Connected Station CPU	Relayed Network	Relayed Station CPU					
	QnACPU		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	②	CC-Link IE Controller Network	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		MELSECNET/10	③	③	②	②	②	×
		MELSECNET(II)	×	×	×	×	×	×
		Ethernet	×	×	×	②	×	×
		Computer link	×	×	×	④	×	×
		CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(c) Property list

Property	Default Value	Property Patterns			
		①	②＊2	③	④
ActCpuType	1025 (CPU_BOARD)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00			
ActDidPropertyBit	0 (0x00)	Fixed to 0x00		Fixed to 0x01	Fixed to 0x00
ActDsidPropertyBit	0 (0x00)	Fixed to 0x00		Fixed to 0x01	Fixed to 0x00
ActIONumber＊3	0 (0x00)	Fixed to 0x00	Fixed to 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Connected station side relayed module I/O address

＊2: Note the following for access to be made via the Ethernet module (Q series-compatible E71, QE71).
- Specify ActNetworkNumber and ActStationNumber using the values set in the target station side Q series-compatible E71 or QE71.
- Set "Station No.↔ IP information" in the Q series-compatible E71 or QE71 parameter setting. When making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔ IP information system".

＊3: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

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Property	Default Value	Property Patterns			
		①	②＊4	③	④
ActMultiDropChannelNumber ＊5	0 (0x00)	Fixed to 0x00			Multidrop channel number
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Target station side module network number	Connected station side module network number
ActPortNumber	1 (PORT_1)	Board No. of IBM-PC/AT compatible side MELSECNET/H board, PORT 1 to PORT 4 (first to fourth boards)			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Target station side module station number	Connected station side module station number
ActThroughNetworkType	1 (0x01)	Fixed to 0x01			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00	Target station side module station number

＊4: Note the following for access to be made via the Ethernet module (Q series-compatible E71, QE71).

- Specify ActNetworkNumber and ActStationNumber using the values set in the target station side Q series-compatible E71 or QE71.
- Set "Station No.↔ IP information" in the Q series-compatible E71 or QE71 parameter setting. When making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔ IP information system".

＊5: Specify the following as the channel No. to be multidrop-linked.

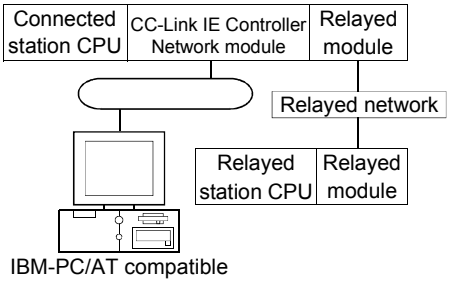
0: Use default channel of module.
1: Channel 1
2: Channel 2

3.3.27 ActMnetGBD, ActMLMnetGBD control

The following table shows the properties possessed by the ActMnetGBD and ActMLMnetGBD controls and their default values.

(1) When connected station CPU is the QCPU (Q mode)

(a) Configuration



(b) Property patterns

Own board	Connected station CPU		Relayed network	Relayed station CPU					
	QCPU (Q mode)	QSCPU		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	②	②＊2	CC-Link IE Controller Network	②	②	×	×	×	×
			MELSECNET/H	②	②	×	×	×	×
			MELSECNET/10	②	②	②	②	②	×
			MELSECNET(II)	×	×	×	×	×	×
			Ethernet	②	②	×	×	×	×
			Computer link	③＊3	×	×	③	×	×
			CC-Link	④	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Relayed stations cannot be accessed through the QSCPU.
＊3 : The Redundant CPU is inaccessible to the computer link module which is on the main base.

(c) Property list

Property	Default value	Property pattern			
		①	②	③	④
ActCpuType	1025 (CPU_BOARD)	CPU type corresponding to the target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side For single CPU Fixed to 0x3FF For multiple CPUs Connected CPU: 0x3FF CPU No.1: 0x3E0 CPU No.2: 0x3E1 CPU No.3: 0x3E2 CPU No.4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU Fixed to 0x3FF For multiple CPUs Connected CPU: 0x3FF CPU No.1: 0x3E0 CPU No.2: 0x3E1 CPU No.3: 0x3E2 CPU No.4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF

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Property	Default value	Property pattern			
		①	②	③	④
ActDidPropertyBit	0 (0x00)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActDsidPropertyBit	0 (0x00)	Fixed to 0x01	Fixed to 0x01	Fixed to 0x00	Fixed to 0x00
ActIONumber＊4	0 (0x00)	Fixed to 0x3FF	For single CPU Fixed to 0x3FF For multiple CPUs Connected CPU: 0x3FF CPU No.1: 0x3E0 CPU No.2: 0x3E1 CPU No.3: 0x3E2 CPU No.4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Relayed module I/O address on connected station side	Relayed module I/O address on connected station side
ActMultiDropChannelNumber＊5	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Multidrop channel number	Fixed to 0x00
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Module network number on target station side	Module network number on connected station side	Module network number on connected station side
ActPortNumber	1 (PORT_1)	CC-Link IE Controller Network board on IBM-PC/AT-compatible personal computer side, whose board number is any of PORT1 to PORT4 (First to fourth)			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Module station number on target station side	Module station number on connected station side	Module station number on connected station side
ActThroughNetworkType	1 (0x01)	Refer to the property [ActThroughNetworkType] in Section 3.2.			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Module station number on target station side	Module station number on target station side

＊4: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊5: Specify the following as the channel No. to be multidrop-linked.

0: Use default channel of module.

1: Channel 1

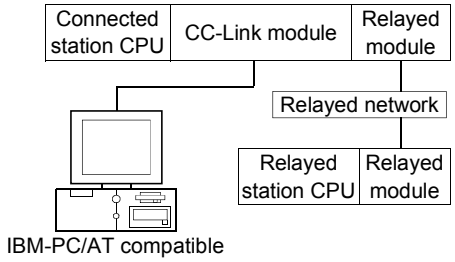
2: Channel 2

3.3.28 ActCCBD, ActMLCCBD control

The following table indicates the properties possessed by the ActCCBD, ActMLCCBD control and their default values.

(1) When connected station CPU is QCPU (Q mode)

(a) Configuration



(b) Property patterns

Own Board	Connected Station CPU	Relayed Network	Relayed Station CPU					
	QCPU (Q mode)		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	②	CC-Link IE Controller Network	③	③	×	×	×	×
		MELSECNET/H	③	③	×	×	×	×
		MELSECNET/10	③	③	×	×	×	×
		MELSECNET(II)	×	×	×	×	×	×
		Ethernet	③	③	×	×	×	×
		Computer link	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×

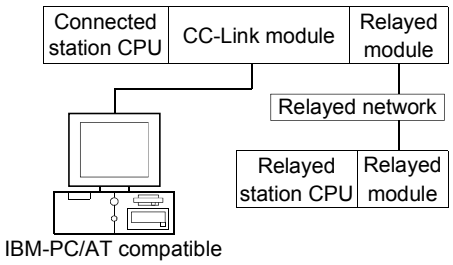
○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(c) Property list

Property	Default Value	Property Patterns		
		①	②	③
ActCpuType	1025 (CPU_BOARD)	CPU type corresponding to target station		
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF
ActIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x3FF	Fixed to 0x3FF
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module network number
ActPortNumber	1 (PORT_1)	Board No. of IBM-PC/AT compatible side CC-Link board, PORT 1 to PORT 4 (first to fourth boards)		
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side CC-Link module station number	Target station side module station number
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Connected station side module station number

(2) When connected station CPU is QCPU (A mode)

(a) Configuration



(b) Property patterns

Own Board	Connected Station CPU	Relayed Network	Relayed Station CPU					
	QCPU (A mode)		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	②	CC-Link IE Controller Network	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		MELSECNET/10	×	×	×	×	×	×
		MELSECNET(II)	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Computer link	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(c) Property list

Property	Default Value	Property Patterns	
		①	②
ActCpuType	1025 (CPU_BOARD)	CPU type corresponding to target station	
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	
ActIONumber	0 (0x00)	Fixed to 0x00	
ActNetworkNumber	0 (0x00)	Fixed to 0x00	
ActPortNumber	1 (PORT_1)	Board No. of IBM-PC/AT compatible side CC-Link board, PORT 1 to PORT 4 (first to fourth boards)	
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side CC-Link module station number
ActUnitNumber	0 (0x00)	Fixed to 0x00	

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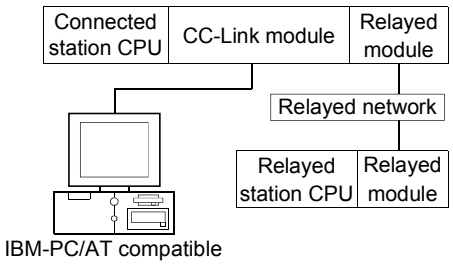
(3) When connected station CPU is QnACPU

(a) Configuration



(b) Property patterns

Own Board	Connected Station CPU	Relayed Network	Relayed Station CPU					
	QnACPU		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	②	CC-Link IE Controller Network	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		MELSECNET/10	×	×	×	③	×	×
		MELSECNET(II)	×	×	×	×	×	×
		Ethernet	×	×	×	③	×	×
		Computer link	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(c) Property list

Property	Default Value	Property Patterns		
		①	②	③
ActCpuType	1025 (CPU_BOARD)	CPU type corresponding to target station		
ActDestinationIONumber	0 (0x00)	Fixed to 0x00		
ActIONumber	0 (0x00)	Fixed to 0x3FF		
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module network number
ActPortNumber	1 (PORT_1)	Board No. of IBM-PC/AT compatible side CC-Link board, PORT 1 to PORT 4 (first to fourth boards)		
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side CC-Link module station number	Target station side module station number
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side CC-Link module station number

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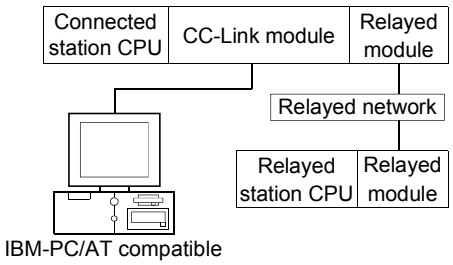
(4) When connected station CPU is ACPU

(a) Configuration



(b) Property patterns

Own Board	Connected Station CPU	Relayed Network	Relayed Station CPU					
	ACPU＊1		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	②	CC-Link IE Controller Network	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×
		MELSECNET/10	×	×	×	×	×	×
		MELSECNET(II)	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×
		Computer link	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(c) Property list

Property	Default Value	Property Patterns	
		①	②
ActCpuType	1025 (CPU_BOARD)	CPU type corresponding to target station	
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	
ActIONumber	0 (0x00)	Fixed to 0x00	
ActNetworkNumber	0 (0x00)	Fixed to 0x00	
ActPortNumber	1 (PORT_1)	Board No. of IBM-PC/AT compatible side CC-Link board, PORT 1 to PORT 4 (first to fourth boards)	
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number
ActUnitNumber	0 (0x00)	Fixed to 0x00	

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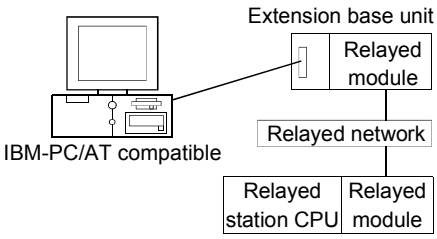
3.3.29 ActAnUBD, ActMLAnUBD control

The following table indicates the properties possessed by the ActAnUBD, ActMLAnUBD control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU / Own Board	Relayed Network	Relayed Station CPU					
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnA CPU	ACPU ＊1	FXCPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	②	②＊2	②	×
	MELSECNET(II)	×	×	③	③＊2	③	×
	Ethernet	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : Operates as the one equivalent to AnACPU.

(3) Property list

Property	Default Value	Property Patterns		
		①	②	③
ActCpuType	271 (CPU_A2USHS1CPU)	CPU type corresponding to target station		
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Target station side module station number

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3.3.30 ActLLT, ActMLLLT control

The following table indicates the properties possessed by the ActLLT, ActMLLLT control and their default values.

Property	Default Value	Property Pattern	
		Own station	Other station
ActCpuType	34 (CPU_Q02CPU)	CPU type corresponding to target station	
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side network number
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side station number
ActTimeOut	10000	Any value specified by user in ms units	

POINT

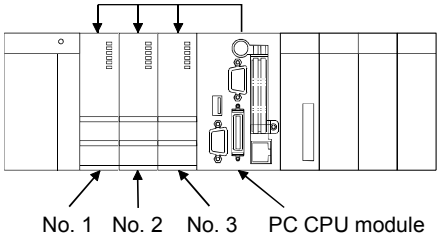
When any of the following settings has been included in the property settings, the access destination will be own station.

- ActNetworkNumber: The number outside the range 1 to 255 has been set.
- ActStationNumber: The number outside the range 0 to 64 has been set.

3.3.31 ActQCPUQBus, ActMLQCPUQBus control

The following table indicates the properties possessed by the ActQCPUQBus, ActMLQCPUQBus control and their default values.

(1) Configuration



(2) Property

Property	Default Value	Property Pattern
ActCpuType	34 (CPU_Q02CPU)	CPU type corresponding to target station
ActIONumber	992 (0x3E0)	Target station No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2

POINT

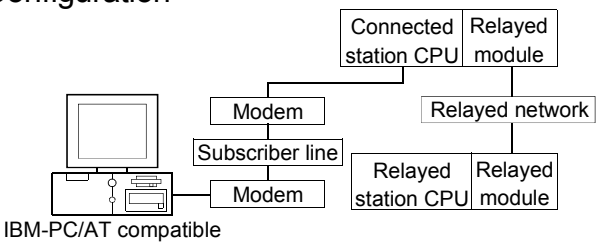
Use any of the following controls for access to the PLC CPU via the corresponding module controlled by the PC CPU module.

Relayed Module	Controls Used	
	For VB, VC++, VBA	For VBScript
MELSECNET/H module	ActMnetHBD	ActMLMnetHBD
CC-Link module	ActCCBD	ActMLCCBD

3.3.32 ActA6TEL control

The following table indicates the properties possessed by the ActA6TEL control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
ACPU＊1		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	②	×	②	×
	MELSECNET(II)	×	×	③	×	③	×
	Ethernet	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

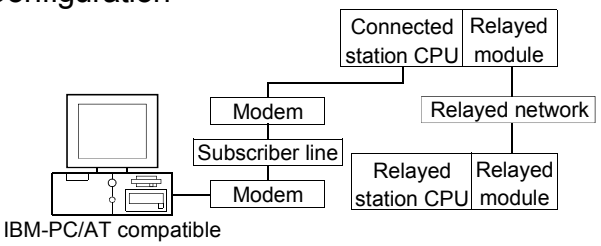
(3) Property list

Property	Default Value	Property Patterns		
		①	②	③
ActATCommand	Empty	Any value specified by user		
ActATCommandPasswordCancelRetryTimes	3	Any value specified by user		
ActATCommandResponseWaitTime	1	Any value specified by user (unit s)		
ActConnectionCDWaitTime	90	Any value specified by user (unit s)		
ActConnectionModemReportWaitTime	5	Any value specified by user (unit s)		
ActCpuType	262 (CPU_A1NCPU)	CPU type corresponding to target station		
ActDialNumber	Empty	Telephone number of any value specified by user		
ActDisconnectionCDWaitTime	5	Any value specified by user (unit s)		
ActDisconnectionDelayTime	3	Any value specified by user (unit s)		
ActLineType	1 (LINETYPE_TONE)	LINETYPE_PULSE, LINETYPE_TONE, LINETYPE_ISDN		
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00
ActOutsideLineNumber	Empty	Outside line access number of any value specified by user		
ActPassword	Empty	Password set to the Q6TEL and A6TEL		
ActPasswordCancelResponseWaitTime	5	Any value specified by user (unit s)		
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number		
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Target station side module station number
ActTimeOut	10000	Any value specified by user in ms units		
ActTransmissionDelayTime	0	Any value specified by user (unit s)		

3.3.33 ActQ6TEL control

The following table indicates the properties possessed by the ActQ6TEL control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
QnACPU		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	×	②	×	×
	MELSECNET(II)	×	×	×	③	×	×
	Ethernet	×	×	×	②	×	×
	Computer link	×	×	×	④	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(3) Property list

Property	Default Value	Property Patterns			
		①	②＊3	③	④
ActATCommand	Empty	Any value specified by user			
ActATCommandPasswordCancelRetryTimes	3	Any value specified by user			
ActATCommandResponseWaitTime	1	Any value specified by user (unit s)			
ActConnectionCDWaitTime	90	Any value specified by user (unit s)			
ActConnectionModemReportWaitTime	5	Any value specified by user (unit s)			
ActCpuType	17 (CPU_Q2ACPU)	CPU type corresponding to target station			
ActDialNumber	Empty	Telephone number of any value specified by user			
ActDisconnectionCDWaitTime	5	Any value specified by user (unit s)			
ActDisconnectionDelayTime	3	Any value specified by user (unit s)			
ActIONumber＊2	1023 (0x3FF)	Fixed to 0x3FF	Fixed to 0x3FF	Fixed to 0x3FF	Connected station side module I/O address
ActLineType	1 (LINETYPE_TONE)	LINETYPE_PULSE, LINETYPE_TONE, LINETYPE_ISDN			

＊2 : As the I/O address, specify the value found by dividing the actual first I/O number by 16.
＊3 : Note the following points when making access via the Ethernet module (QE71).
- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side QE71.
- Set the "Station No.↔IP information" in the parameter setting of the QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

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Property	Default Value	Property Patterns			
		①	②＊4	③	④
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00	Fixed to 0x00
ActOutsideLineNumber	Empty	Outside line access number of any value specified by user			
ActPassword	Empty	Password set to the Q6TEL			
ActPasswordCancelResponseWaitTime	5	Any value specified by user (unit s)			
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Target station side module station number	Fixed to 0xFF
ActTimeOut	10000	Any value specified by user in ms units			
ActTransmissionDelayTime	0	Any value specified by user (unit s)			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00	Target station side module station number

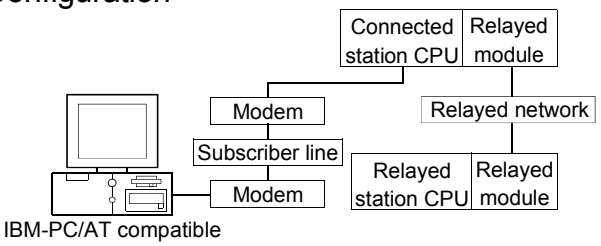
＊4 : Note the following points when making access via the Ethernet module (QE71).

- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side QE71.
- Set the "Station No.↔IP information" in the parameter setting of the QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

3.3.34 ActFXCPUTEL control

The following table indicates the properties possessed by the ActFXCPUTEL control and their default values.

(1) Configuration



(2) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
FXCPU		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/10	×	×	×	×	×	×
	MELSECNET(II)	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(3) Property list

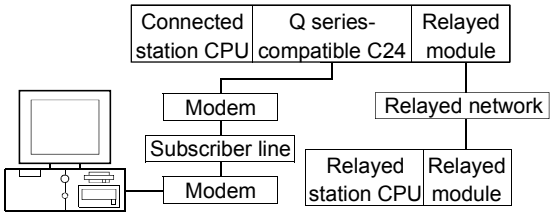
Property	Default Value	Property Patterns
		①
ActATCommand	Empty	Any value specified by user
ActATCommandPasswordCancelRetryTimes	3	Any value specified by user
ActATCommandResponseWaitTime	1	Any value specified by user (unit s)
ActConnectionCDWaitTime	90	Any value specified by user (unit s)
ActConnectionModemReportWaitTime	5	Any value specified by user (unit s)
ActCpuType	513 (CPU_FX0CPU)	CPU type corresponding to target station
ActDialNumber	Empty	Telephone number of any value specified by user
ActDisconnectionCDWaitTime	5	Any value specified by user (unit s)
ActDisconnectionDelayTime	3	Any value specified by user (unit s)
ActLineType	1 (LINETYPE_TONE)	LINETYPE_PULSE, LINETYPE_TONE, LINETYPE_ISDN
ActOutsideLineNumber	Empty	Outside line access number of any value specified by user
ActPasswordCancelResponseWaitTime	5	Any value specified by user (unit s)
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number
ActTimeOut	10000	Any value specified by user in ms units
ActTransmissionDelayTime	0	Any value specified by user (unit s)

3.3.35 ActQJ71C24TEL control

The following table indicates the properties possessed by the ActQJ71C24TEL control and their default values.

(1) When there is relayed module in addition to connected station side Q series-compatible C24

(a) Configuration



(b) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
QCPU (Q mode)		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	CC-Link IE Controller Network	②	②	×	×	×	×
	MELSECNET/H	②	②	×	×	×	×
	MELSECNET/10	②	②	②	②	②	×
	MELSECNET(II)	×	×	×	×	×	×
	Ethernet	②	②	×	②	×	×
	Computer link	③＊2	×	×	③	×	×
	CC-Link	④	×	④	④	④	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : The Redundant CPU is inaccessible to the computer link module which is on the main base.

(c) Property list

Property	Default Value	Property Patterns			
		①	②＊3	③	④
ActATCommand	Empty	Any value specified by user			
ActATCommandPasswordCancelRetryTimes	3	Any value specified by user			
ActATCommandResponseWaitTime	1	Any value specified by user (unit s)			
ActBaudRate	19200 (BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_5700, BAUDRATE_115200 (Match to the setting of Q series-compatible C24)			
ActCallbackCancelWaitTime	90	Any value specified by user (unit s)			
ActCallbackDelayTime	20	Any value specified by user (unit s)			
ActCallbackNumber	Empty	Telephone number of any value specified by user			
ActCallbackReceptionWaitingTimeOut	120	Any value specified by user (unit s)			
ActConnectionCDWaitTime	90	Any value specified by user (unit s)			

＊3 : Note the following points when making access via the Ethernet module (QE71).
- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side QE71.
- Set the "Station No.↔IP information" in the parameter setting of the QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

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Property	Default Value	Property Patterns			
		①	②＊5	③	④
ActConnectionModemReportWaitTime	5	Any value specified by user (unit s)			
ActConnectUnitNumber	0 (0x00)	Connected station side module station number			
ActConnectWay	0 (TEL_AUTO_CONNECT)	TEL_AUTO_CONNECT, TEL_AUTO_CALLBACK, TEL_AUTO_CALLBACK_NUMBER, TEL_CALLBACK, TEL_CALLBACK_NUMBER, TEL_CALLBACK_REQUEST, TEL_CALLBACK_REQUEST_NUMBER, TEL_CALLBACK_WAIT (Depending on callback function setting)			
ActCpuType	34 (CPU_Q02CPU)	CPU type corresponding to target station			
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Target station side Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Control system: 0x3D0 No specification: 0x3FF
ActDialNumber	Empty	Telephone number of any value specified by user			
ActDidpropertyBit	1 (0x01)	0x01	0x01	0x00	0x00
ActDisconnectionCDWaitTime	5	Any value specified by user (unit s)			
ActDisconnectionDelayTime	3	Any value specified by user (unit s)			
ActDsidPropertyBit	1 (0x01)	0x01	0x01	0x00	0x00
ActIntelligentPreferenceBit	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00
ActIONumber＊4	1023 (0x3FF)	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Control system: 0x3D0 No specification: 0x3FF	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3 For Redundant CPU Control system: 0x3D0 No specification: 0x3FF	Connected station side relayed module I/O address	Connected station side relayed module I/O address

＊4: As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊5: Note the following points when making access via the Ethernet module (QE71).

- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side QE71.
- Set the "Station No.↔IP information" in the parameter setting of the QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

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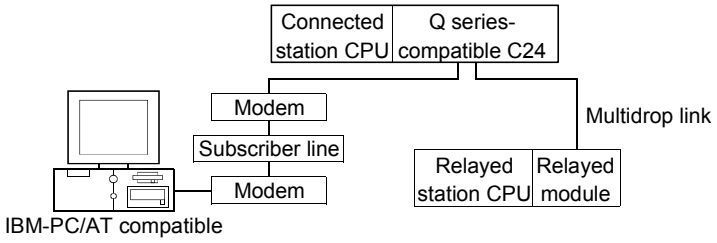
Property	Default Value	Property Patterns			
		①	②＊7	③	④
ActLineType	1 (LINETYPE_TONE)	LINETYPE_PULSE, LINETYPE_TONE, LINETYPE_ISDN			
ActMultiDropChannelNumber＊6	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Multidrop channel number	Fixed to 0x00
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00	Fixed to 0x00
ActOutsideLineNumber	Empty	Outside line access number of any value specified by user			
ActPassword	Empty	Password set to the Q series-compatible C24			
ActPasswordCancelResponse WaitTime	5	Any value specified by user (unit s)			
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Fixed to 0xFF	Fixed to 0xFF
ActThroughNetworkType	0 (0x00)	Refer to the property [ActThroughNetworkType] in Section 3.2.			
ActTimeOut	10000	Any value specified by user in ms units			
ActTransmissionDelayTime	0	Any value specified by user (unit s)			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Target station side module station number	Target station side module station number

＊6: Specify the following as the channel No. to be multidrop-linked.
0: Use default channel of module.
1: Channel 1
2: Channel 2

＊7: Note the following points when making access via the Ethernet module (QE71).
• For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side QE71.
• Set the "Station No.↔IP information" in the parameter setting of the QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

(2) When connected station side Q series-compatible C24 is used for multidrop link with relayed module

(a) Configuration



(b) Property patterns

Connected Station CPU		Relayed Network	Relayed Station CPU					
QCPU (Q mode)			QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
Independent mode＊2	①	Computer link	②	×	×	②	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : The independent mode indicates that the parameters have been set as indicated below.
CH1 side: Operation setting for transmission setting = independent (0), communication protocol setting = 0
CH2 side: Operation setting for transmission setting = independent (0)

(c) Property list

Property	Default Value	Property Patterns	
		①	②
ActATCommand	Empty	Any value specified by user	
ActATCommandPasswordCancelRetryTimes	3	Any value specified by user	
ActATCommandResponseWaitTime	1	Any value specified by user (unit s)	
ActBaudRate	19200 (BAUDRATE_19200)	BAUDRATE_9600, BAUDRATE_19200, BAUDRATE_38400, BAUDRATE_57600, BAUDRATE_115200 (Match to the setting of Q series-compatible C24)	
ActCallbackCancelWaitTime	90	Any value specified by user (unit s)	
ActCallbackDelayTime	20	Any value specified by user (unit s)	
ActCallbackNumber	Empty	Telephone number of any value specified by user	
ActCallbackReceptionWaitingTimeOut	120	Any value specified by user (unit s)	
ActConnectionCDWaitTime	90	Any value specified by user (unit s)	
ActConnectionModemReportWaitTime	5	Any value specified by user (unit s)	
ActConnectUnitNumber	0 (0x00)	Connected station side module station number	Connected station side module station number
ActConnectWay	0 (TEL_AUTO_CONNECT)	TEL_AUTO_CONNECT, TEL_AUTO_CALLBACK, TEL_CALLBACK, TEL_CALLBACK_NUMBER, TEL_CALLBACK_REQUEST, TEL_CALLBACK_REQUEST_NUMBER, TEL_CALLBACK_WAIT (Depending on callback function setting)	
ActCpuType	34 (CPU_Q02CPU)	CPU type corresponding to target station	

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Property	Default Value	Property Patterns	
		①	②
ActDestinationIONumber	0 (0x00)	Fixed to 0x00	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3
ActDialNumber	Empty	Telephone number of any value specified by user	
ActDidpropertyBit	1 (0x01)	0x01	0x00
ActDisconnectionCDWaitTime	5	Any value specified by user (unit s)	
ActDisconnectionDelayTime	3	Any value specified by user (unit s)	
ActDsidPropertyBit	1 (0x01)	0x01	0x00
ActIntelligentPreferenceBit	0 (0x00)	Fixed to 0x00	Fixed to 0x00
ActIONumber＊3	1023 (0x3FF)	Target station side For single CPU 0x3FF fixed For multiple CPUs Connected CPU: 0x3FF No. 1: 0x3E0 No. 2: 0x3E1 No. 3: 0x3E2 No. 4: 0x3E3	Connected station side relayed module I/O address
ActLineType	1 (LINETYPE_TONE)	LINETYPE_PULSE, LINETYPE_TONE, LINETYPE_ISDN	
ActMultiDropChannelNumber＊4	0 (0x00)	Fixed to 0x00	Multidrop channel number
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00
ActOutsideLineNumber	Empty	Outside line access number of any value specified by user	
ActPassword	Empty	Password set to the Q series-compatible C24	
ActPasswordCancelResponseWaitTime	5	Any value specified by user (unit s)	
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number	
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Fixed to 0xFF
ActThroughNetworkType	0 (0x00)	Refer to the property [ActThroughNetworkType] in Section 3.2.	
ActTimeOut	10000	Any value specified by user in ms units	
ActTransmissionDelayTime	0	Any value specified by user (unit s)	
ActUnitNumber	0 (0x00)	Fixed to 0x00	Target station side module station number

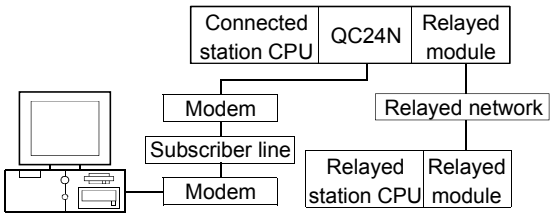
＊3 : As the I/O address, specify the value found by dividing the actual first I/O number by 16.
＊4 : Specify the following as the channel No. to be multidrop-linked.
0: Use default channel of module.
1: Channel 1
2: Channel 2

3.3.36 ActAJ71QC24TEL control

The following table indicates the properties possessed by the ActAJ71QC24TEL control and their default values.

(1) When there is relayed module in addition to connected station side QC24

(a) Configuration



(b) Property patterns

Connected Station CPU	Relayed Network	Relayed Station CPU					
QnACPU		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
①	CC-Link IE Controller Network	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×
	MELSECNET/10	×	×	×	②	×	×
	MELSECNET(II)	×	×	×	③	×	×
	Ethernet	×	×	×	②	×	×
	Computer link	×	×	×	④	×	×
	CC-Link	×	×	×	④	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU

(c) Property list

Property	Default Value	Property Patterns			
		①	②＊2	③	④
ActATCommand	Empty	Any value specified by user			
ActATCommandPasswordCancelRetryTimes	3	Any value specified by user			
ActATCommandResponseWaitTime	1	Any value specified by user (unit s)			
ActBaudRate	19200 (BAUDRATE_19200)	Match to the setting of QC24N.			
ActConnectionCDWaitTime	90	Any value specified by user (unit s)			
ActConnectionModemReportWaitTime	5	Any value specified by user (unit s)			
ActConnectUnitNumber	0 (0x00)	Connected station side module station number			
ActCpuType	17 (CPU_Q2ACPU)	CPU type corresponding to target station			
ActDialNumber	Empty	Telephone number of any value specified by user			

＊2 : Note the following points when making access via the Ethernet module (QE71).

- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side QE71.
- Set the "Station No.↔IP information" in the parameter setting of the QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

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Property	Default Value	Property Patterns			
		①	②＊4	③	④
ActDisconnectionCDWaitTime	5	Any value specified by user (unit s)			
ActDisconnectionDelayTime	3	Any value specified by user (unit s)			
ActIONumber＊3	1023 (0x3FF)	Fixed to 0x3FF	Fixed to 0x3FF	Fixed to 0x3FF	Connected station side relayed module I/O address
ActLineType	1 (LINETYPE_TONE)	LINETYPE_PULSE, LINETYPE_TONE, LINETYPE_ISDN			
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Target station side module network number	Fixed to 0x00	Fixed to 0x00
ActOutsideLineNumber	Empty	Outside line access number of any value specified by user			
ActPasswordCancelResponseWaitTime	5	Any value specified by user (unit s)			
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number			
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Target station side module station number	Target station side module station number	Fixed to 0xFF
ActTimeOut	10000	Any value specified by user in ms units			
ActTransmissionDelayTime	0	Any value specified by user (unit s)			
ActUnitNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00	Fixed to 0x00	Target station side module station number

＊3 : As the I/O address, specify the value found by dividing the actual first I/O number by 16.

＊4 : Note the following points when making access via the Ethernet module (QE71).

- For ActNetworkNumber and ActStationNumber, specify the value set in the parameter setting of the target station side QE71.
- Set the "Station No.↔IP information" in the parameter setting of the QE71. Also, when making setting, specify other than the automatic response system (any of the IP address calculation system, table conversion system and combined system) as the "Station No.↔IP information system".

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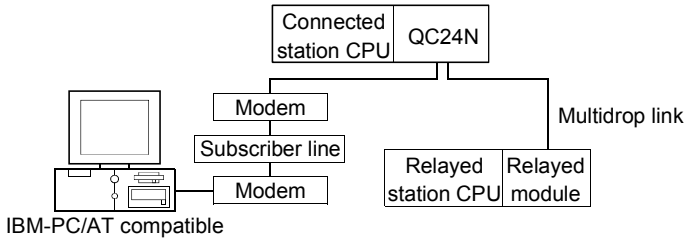
(2) When connected station side QC24 is used for multidrop link with relayed module

(a) Configuration



(b) Property patterns

Connected Station CPU		Relayed Network	Relayed Station CPU					
QCPU (Q mode)			QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU＊1	FXCPU
Independent mode＊2	①	Computer link	×	×	×	②	×	×

○ : Accessible (Property pattern within circle)
× : Inaccessible
＊1 : Including motion controller CPU
＊2 : The independent mode indicates that the module switch have been set as indicated below.
CH1 side: Mode setting switch = 5, SW01 of operation setting switch = OFF

(c) Property list

Property	Default Value	Property Patterns	
		①	②
ActATCommand	Empty	Any value specified by user	
ActATCommandPasswordCancelRetryTimes	3	Any value specified by user	
ActATCommandResponseWaitTime	1	Any value specified by user (unit s)	
ActBaudRate	19200 (BAUDRATE_19200)	Match to the setting of QC24N.	
ActConnectionCDWaitTime	90	Any value specified by user (unit s)	
ActConnectionModemReportWaitTime	5	Any value specified by user (unit s)	
ActConnectUnitNumber	0 (0x00)	Connected station side module station number	Connected station side module station number
ActCpuType	17 (CPU_Q2ACPU)	CPU type corresponding to target station	
ActDialNumber	Empty	Telephone number of any value specified by user	
ActDisconnectionCDWaitTime	5	Any value specified by user (unit s)	
ActDisconnectionDelayTime	3	Any value specified by user (unit s)	
ActIONumber＊3	1023 (0x3FF)	Fixed to 0x3FF	Connected station side relayed module I/O address
ActLineType	1 (LINETYPE_TONE)	LINETYPE_PULSE, LINETYPE_TONE, LINETYPE_ISDN	
ActNetworkNumber	0 (0x00)	Fixed to 0x00	Fixed to 0x00
ActOutsideLineNumber	Empty	Outside line access number of any value specified by user	

＊3 : As the I/O address, specify the value found by dividing the actual first I/O number by 16.

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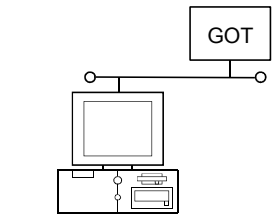
Property	Default Value	Property Patterns	
		①	②
ActPasswordCancelResponseWaitTime	5	Any value specified by user (unit s)	
ActPortNumber	1 (PORT_1)	IBM-PC/AT compatible side COM port number	
ActStationNumber	255 (0xFF)	Fixed to 0xFF	Fixed to 0xFF
ActTimeOut	10000	Any value specified by user in ms units	
ActTransmissionDelayTime	0	Any value specified by user (unit s)	
ActUnitNumber	0 (0x00)	Fixed to 0xFF	Target station side module station number

3.3.37 ActGOT, ActMLGOT control

The following table indicates the properties possessed by the ActGOT, ActMLGOT control and their default values.

(1) Configuration



(2) Property patterns

Property	Default value	Property patterns
		①
ActHostAddress	1.1.1.1	Host name or IP address of connected GOT
ActPortNumber	5011	IBM-PC/AT compatible side COM port number
ActTimeOut	10000	Any value specified by user in ms units

MEMO

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4 FUNCTIONS

This chapter provides the programming instructions and function details (dispatch interface*1, custom interface*2).

*1 : The dispatch interface is a method in which the ActiveX controls are pasted onto Visual Basic® , Visual C++® or VBA (Excel, Access) to use the ActiveX controls. You need not program interface acquirement and object generation. (You can also create a program that will create an object without pasting the ActiveX control to a form.)
The dispatch interface is easier in programming than the customer interface.
For MX Component, it is recommended to use the dispatch interface to create user applications.

*2 : The custom interface gets the interface using the interface getting function when using the ActiveX controls.
It also uses the object generation function when generating objects.
Though the custom interface is more complicated in program than the dispatch interface, it can perform fine control of object generation/elimination.

POINT
For programming, refer to "Section 4.1 Programming Instructions".

4.1 Programming Instructions

This section gives the instructions for programming.

(1) Instructions for multithread programming

When performing multithread programming, follow the rules of COM and ActiveX controls.
For details, refer to the rules and reference books of COM and ActiveX controls.

POINT
(1) The ActiveX controls used on MX Component are those of the STA model. (2) When passed to another apartment, the interface pointer must be marshaled. Provide synchronization using the CoMarshalInterThreadInterfaceInStream or CoGetInterfaceAndReleaseStream COM function.

(2) Instructions for use of Visual Basic® 6.0

Only the dispatch interface is usable.

(3) Instructions for use of Visual C++® 6.0 (dispatch interface, custom interface)

(a) Both the dispatch interface and custom interface are usable.

(b) BSTR* type

In the functions which acquire the methods and properties using the BSTR pointer type, memory must be secured inside the ActiveX controls and released in user programs. (This is based on the rules of COM and ActiveX controls.)

(Example)

```
BSTR    szCpuName;
LONG    lCpuCode;
Obj.GetCpuType(&szCpuName, &lCpuCode );
MessgBox( “CpuName = %s, CpuCode = %d”, szCpuName, lCpuCode );
SysFreeString( szCpuName );
```

(4) Instructions for use of Visual C++® 6.0 (custom interface)

(a) HRESULT type

Use the SUCCEEDED or FAILED macro to check whether the HRESULT type, i.e. returned value of COM, resulted in normal or abnormal termination.

(Example)

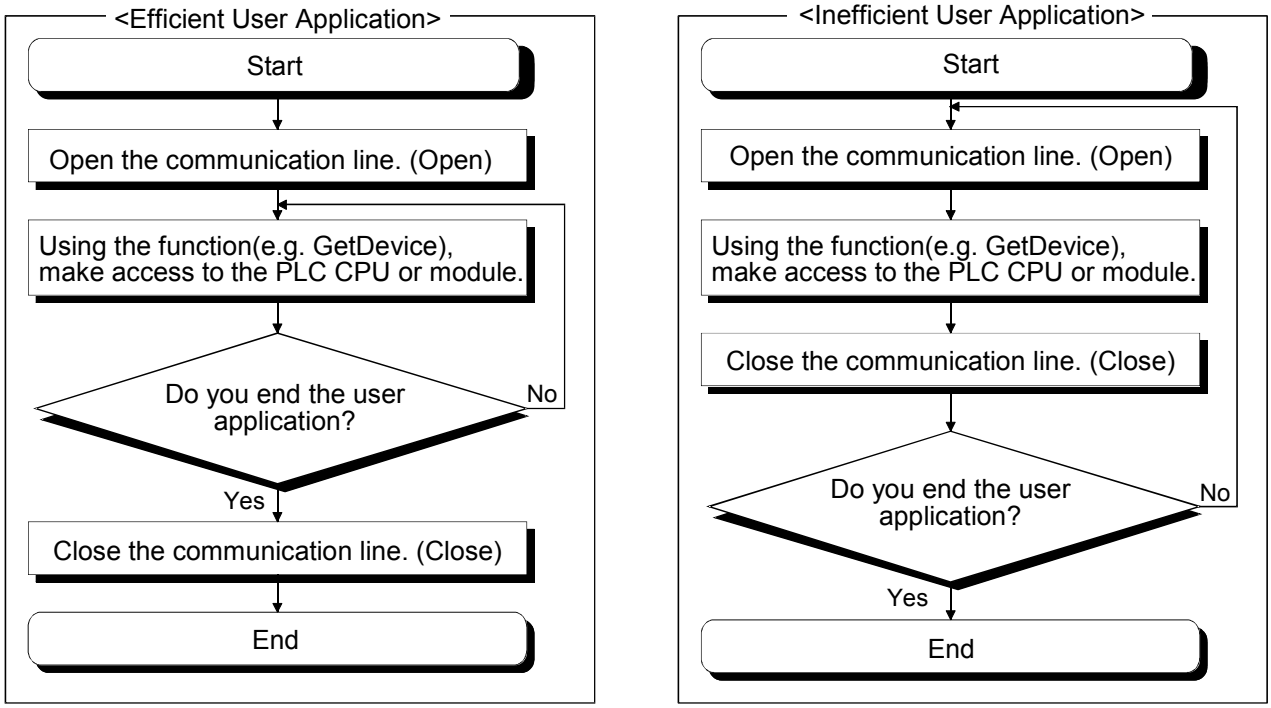
```
HRESULT      hResult;
LONG         lRet;
hResult = Obj.Open( &lRet );
if( SUCCEEDE( hResult ) ) {
        if( lRet = SUCCESS ) {

        } else {
            MessgeBox( “Communication Error = %x”, lRet );
        }
} else {
        MessgeBox( “COM ERROR Occurd” );
}
```

(5) About Open (opening the communication line)

Since the Open function performs processing, e.g. establishes a communication path or gets the PLC internal information, the processing time may become long. An efficient program must be created to enhance the speed performance of the user application.

The following flowcharts provide procedures for creating efficient and inefficient user applications.



(6) Precautions for use of QSCPU

The following function cannot be uded for the QSCPU.

The error code "0x010a42a0" (The CPU access password is mismatched.) may be returned if they are used.

Function Name	Function
WriteDeviceBlock	Device batch-write
WriteDeviceRandom	Device random-write
SetDevice	Device data setting
WriteBuffer	Buffer memory write
SetClockData	Clock data write
SetCpuStatus	Remote control
WriteDeviceBlock2	Device batch-write
WriteDeviceRandom2	Device random-write
SetDevice2	Device data setting

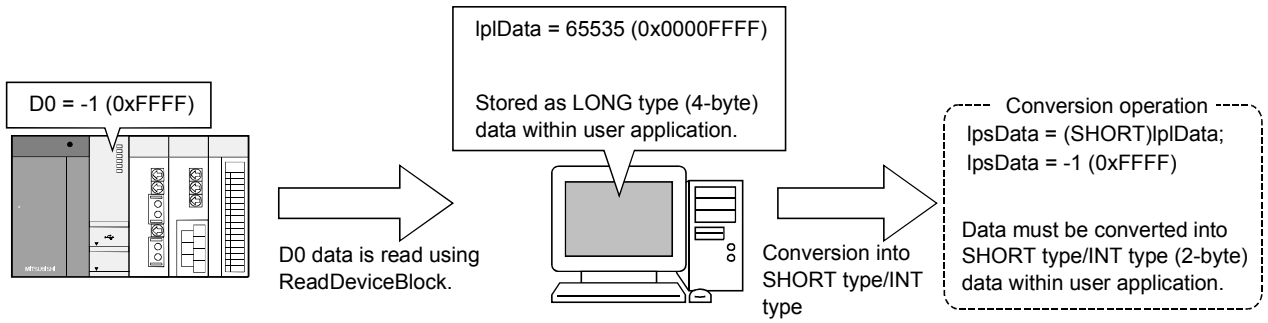
(7) Differences between LONG type functions and SHORT type/INT type functions

As functions for performing "device batch-read", "device batch-write", "device random-read", "device random-write", "device data setting" and "device data acquisition", MX Component has two different functions: LONG type functions and SHORT type/INT type functions.
The following describes the differences between the LONG type functions and SHORT type/INT type functions.

(a) LONG type functions (Reference sections: Section 4.2.3 to Section 4.2.8)
When writing/reading a negative device value, by using the LONG type function the data must be converted into the SHORT type/INT type data within the user application.
Write/read negative device values using the SHORT type/INT type functions indicated in (b).

Target functions : ReadDeviceBlock, WriteDeviceBlock, ReadDeviceRandom, WriteDeviceRandom, SetDevice, GetDevice

<Example>
When reading device data that include negative value by using ReadDeviceBlock

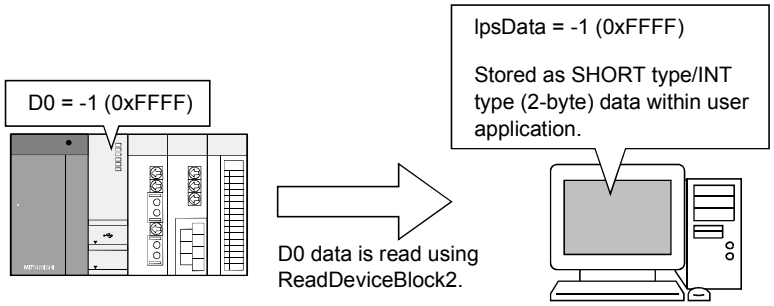

D0 = -1 (0xFFFF)
lplData = 65535 (0x0000FFFF)
Stored as LONG type (4-byte) data within user application.
D0 data is read using ReadDeviceBlock.
Conversion into SHORT type/INT type
Conversion operation
lpsData = (SHORT)lplData;
lpsData = -1 (0xFFFF)
Data must be converted into SHORT type/INT type (2-byte) data within user application.

(b) SHORT type/INT type functions (Reference sections: Section 4.2.18 to Section 4.2.23)

When reading/writing a negative device value by using the SHORT type/INT type function, it is not required to convert the device value in advance.
When handling a double word device or like, use any of the LONG type functions indicated in (a).

Target functions : ReadDeviceBlock2, WriteDeviceBlock2,
ReadDeviceRandom2, WriteDeviceRandom2,
SetDevice2, GetDevice2

<Example>
When using ReadDeviceBlock2 to read device data of negative value


lpsData = -1 (0xFFFF)
Stored as SHORT type/INT type (2-byte) data within user application.
D0 = -1 (0xFFFF)
D0 data is read using ReadDeviceBlock2.

4.2 Details of the Functions (Dispatch Interface)

This section explains the details of the functions.
The details of the functions in this section assume that the dispatch interface is used.
For the custom interface, refer to "Section 4.3 Details of the Functions (Custom Interface)".

4.2.1 Open (Communication line opening)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Opens the communication line.

(3) Format

Visual Basic® 6.0, Visual C++® 6.0,
Visual C++® .NET(MFC), VBA : lRet = object.Open()

Long	lRet	Returned value	Output

VBScript : varRet = object.Open()

VARIANT	varRet	Returned value (LONG type)	Output

Visual Basic® .NET : lRet = object.Open()

Integer	lRet	Returned value	Output

Visual C++® .NET : iRet = object.Open()

int	iRet	Returned value	Output

(4) Explanation

The line is connected on the basis of the value set to the property for Open function.

(5) Returned value

Normal termination : 0 is returned.
Abnormal termination : A value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

(1) When modem communication is used, Open cannot be executed after execution of Connect.
(2) If the property for Open function is changed after completion of Open, the other end of communication is not changed.
To change the communication settings, close the communication line once, then set the other end of communication, and open the communication line again.
(3) When any ACT control other than the ActEasyIF or ActMLEasyIF control is used at the time of Open, Open may terminate normally if the CPU type entered into the ActCpuType property differs from the CPU to communicate with.
In such a case, the connection range, usable method and device range may be narrowed, for example.
When executing Open, set the correct CPU type to the ActCpuType property.

4.2.2 Close (Communication line closing)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Closes the communication line.

(3) Format

Visual Basic® 6.0, Visual C++® 6.0,
Visual C++® .NET(MFC), VBA : lRet = object.Close ()

Long	lRet	Returned value	Output

VBScript : varRet = object.Close()

VARIANT	varRet	Returned value (LONG type)	Output

Visual Basic® .NET : lRet = object.Close()

Integer	lRet	Returned value	Output

Visual C++® .NET : iRet = object.Close()

int	iRet	Returned value	Output

(4) Explanation

The line connected using the Open function is closed.

(5) Returned value

Normal termination : 0 is returned.
Abnormal termination : A value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

4.2.3 ReadDeviceBlock (Device batch-read)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Batch-reads data from devices.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.ReadDeviceBlock(szDevice, lSize, lData(0))

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Long	lSize	Number of read points	Input
Long	lData(n)	Read device values	Output

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.ReadDeviceBlock (szDevice, lSize, ∗lplData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Long	lSize	Number of read points	Input
Long	∗lplData	Read device values	Output

VBScript : varRet = object.ReadDeviceBlock(varDevice, varSize, lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name(character string type)	Input
VARIANT	varSize	Number of read points(LONG type)	Input
VARIANT	lpvarData	Read device values(LONG array type)	Output

Visual Basic® .NET : lRet = object.ReadDeviceBlock(szDevice, iSize, iData(0))

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	iSize	Number of read points	Input
Integer	iData(n)	Read device values	Output

Visual C++® .NET : iRet = object.ReadDeviceBlock(∗szDevice, iSize, ∗iplData)

int	iRet	Returned value	Output
String	∗szDevice	Device name	Input
int	iSize	Number of read points	Input
int	∗iplData	Read device values	Output

(4) Explanation

(a) The device values for lSize(varSize) are batch-read from the devices, beginning with the device specified in szDevice(varDevice).
(b) The read device values are stored in lData (lplData or lpvarData).
(c) Reserve an array of lSize (varSize) or more for lData (lplData or lpvarData).

(5) Device specifying methods

Specify the devices in the following methods.

<When bit device is specified>
(Example) Data are read from 3 points (3 words) on a 16 point basis, starting from M0.

2 Upper Bytes	2 Lower Bytes
∗1	M0 to M15∗2
∗1	M16 to M31∗2
∗1	M32 to M47∗2

<When word device is specified>
(Example) 3 points from D0

2 Upper Bytes	2 Lower Bytes
∗1	D0
∗1	D1
∗1	D2

<When CN200 and later of FXCPU are specified>
(Example) 6 points from CN200 ∗3:

2 Upper Bytes	2 Lower Bytes
∗1	L of CN200
∗1	H of CN200
∗1	L of CN201
∗1	H of CN201
∗1	L of CN202
∗1	H of CN202

<When FD device is specified (4-word device)>
(Example) 6 points from FD0

2 Upper Bytes	2 Lower Bytes
∗1	LL of FD0
∗1	LH of FD0
∗1	HL of FD0
∗1	HH of FD0
∗1	LL of FD1
∗1	LH of FD1

<8-bit devices assigned to gateway devices>
(Example) When 8-bit devices (E0000 to E0007 of SHARP PLC) have been assigned to 4 points, starting from EG0 (EG0 - EG3).

2 Upper Bytes	2 Lower Bytes	
∗1	EG0	
	(E0001)	(E0000)
∗1	EG1	
	(E0003)	(E0002)
∗1	EG2	
	(E0005)	(E0004)
∗1	EG3	
	(E0007)	(E0006)

∗1: Not used. (0 is stored.)
∗2: Lower bits are stored in device number order.
∗3: For CN200 or later of FXCPU, 2 words are read from 2 points. Read from 1 point will result in an error.

(6) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

(1) The maximum number of read points that may be specified in lSize(varSize) should satisfy the following range.
Read starting device number + number of read points ≤ last device number
(2) When the bit device is specified, a multiple of 16 may be specified as the device number.
(3) For lData (lplData or lpvarData), prepare a memory area having the number of points specified in lSize (varSize).
If there is no memory area, a critical phenomenon such as an application error may occur.

4.2.4 WriteDeviceBlock (Device batch-write)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Batch-writes data to devices.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.WriteDeviceBlock(szDevice, lSize, lData(0))

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Long	lSize	Number of write points	Input
Long	lData(n)	Device values to be written	Input

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.WriteDeviceBlock (szDevice, lSize, ∗lplData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Long	lSize	Number of write points	Input
Long	∗lplData	Device values to be written	Input

VBScript : varRet = object.WriteDeviceBlock(varDevice, varSize, varData)

VARIANT	varRet	Returned value(LONG type)	Output
VARIANT	varDevice	Device name(character string type)	Input
VARIANT	varSize	Number of write points(LONG type)	Input
VARIANT	varData	Device values to be written (LONG array type)	Input

Visual Basic® .NET : lRet = object.WriteDeviceBlock(szDevice, iSize, iData(0))

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	iSize	Number of write points	Input
Integer	iData(n)	Device values to be written	Input

Visual C++® .NET : iRet = object.WriteDeviceBlock(∗szDevice, iSize, ∗iplData)

int	iRet	Returned value	Output
String	∗szDevice	Device name	Input
int	iSize	Number of write points	Input
int	∗iplData	Device values to be written	Input

(4) Explanation

(a) The device values for lSize(varSize) are batch-written to the devices, beginning with the device specified in szDevice(varDevice).
(b) Store the device values to be written in lData (lplData or varData).
(c) Reserve an array of lSize (varSize) or more for lData (lplData or varData).

(5) Device specifying methods

Specify the devices in the following methods.

<When bit device is specified>
(Example) Data are written to 3 points (3 words) on a 16 point basis, starting from M0.

2 Upper Bytes	2 Lower Bytes
∗1	M0 to M15∗2
∗1	M16 to M31∗2
∗1	M32 to M47∗2

<When word device is specified>
(Example) 3 points from D0

2 Upper Bytes	2 Lower Bytes
∗1	D0
∗1	D1
∗1	D2

<When CN200 and later of FXCPU are specified>
(Example) 6 points from CN200 ∗3:

2 Upper Bytes	2 Lower Bytes
∗1	L of CN200
∗1	H of CN200
∗1	L of CN201
∗1	H of CN201
∗1	L of CN202
∗1	H of CN202

<When FD device is specified (4-word device)>
(Example) 6 points from FD0

2 Upper Bytes	2 Lower Bytes
∗1	LL of FD0
∗1	LH of FD0
∗1	HL of FD0
∗1	HH of FD0
∗1	LL of FD1
∗1	LH of FD1

<8-bit devices assigned to gateway devices>
(Example) When 8-bit devices (E0000 to E0007 of SHARP PLC) have been assigned to 4 points, starting from EG0 (EG0 - EG3).

2 Upper Bytes	2 Lower Bytes	
∗1	EG0	
	(E0001)	(E0000)
∗1	EG1	
	(E0003)	(E0002)
∗1	EG2	
	(E0005)	(E0004)
∗1	EG3	
	(E0007)	(E0006)

∗1: Not used. (0 is stored.)
∗2: Lower bits are stored in device number order.
∗3: For CN200 or later of FXCPU, 2 words are written from 2 points. Write from 1 point will result in an error.

(6) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

(1) The maximum number of write points that may be specified in lSize(varSize) should satisfy the following range.
Write starting device number + number of write points ≤ last device number
(2) When the bit device is specified, a multiple of 16 may be specified as the device number.
(3) For lData (lplData or varData), prepare a memory area having the number of points specified in lSize (varSize).
If there is no memory area, a critical phenomenon such as an application error may occur.

4.2.5 ReadDeviceRandom (Device random-read)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Reads data randomly from devices.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.ReadDeviceRandom(szDeviceList, lSize, lData(0))

Long	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Long	lSize	Number of read points	Input
Long	lData(n)	Read device values	Output

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.ReadDeviceRandom (szDeviceList, lSize, ＊lplData)

Long	lRet	Returned value	Output
CString	szDeviceList	Device name	Input
Long	lSize	Number of read points	Input
Long	＊lplData	Read device values	Output

VBScript : varRet = object.ReadDeviceRandom(varDeviceList, varSize, lpvarData)

VARIANT	varRet	Returned value(LONG type)	Output
VARIANT	varDeviceList	Device name(character string type)	Input
VARIANT	varSize	Number of read points(LONG type)	Input
VARIANT	lpvarData	Read device values (LONG array type)	Output

Visual Basic® .NET : lRet = object.ReadDeviceRandom(szDeviceList, iSize, iData(0))

Integer	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Integer	iSize	Number of read points	Input
Integer	iData(n)	Read device values	Output

Visual C++® .NET : iRet = object.ReadDeviceRandom(＊szDeviceList, iSize, ＊iplData)

int	iRet	Returned value	Output
String	＊szDeviceList	Device name	Input
int	iSize	Number of read points	Input
int	＊iplData	Read device values	Output

(4) Explanation

(a) The device values for lSize(varSize) are read from the device group specified in szDeviceList(varDeviceList).

(b) The read device values are stored in lData (lplData or lpvarData).

(c) Using the line feed symbol, separate the devices in the character string specified in the device list.
The last device need not be followed by the line feed symbol.
(Example)
Visual Basic® , VBA, VBScript : "D0" & vbLf & "D1" & vbLf & "D2"
Visual C++® : D0\nD1\nD2

(d) Reserve an array of lSize (varSize) or more for lData (lplData or lpvarData).

(5) Device specifying methods

Specify the devices in the following methods.

(Example 1) When devices are specified as follows (3 points)

When using Visual Basic® , VBA, VBScript : M0 & vbLf & D0 & vbLf & K8M0
When using Visual C++® : M0\nD0\nK8M0

2 Upper Bytes	2 Lower Bytes
∗1	M0
∗1	D0
M16 to M31∗2	M0 to M15∗2

(Example 2) When devices including CN200 and later of FXCPU are specified (3 points in all) ∗3

When using Visual Basic® , VBA, VBScript : D0 & vbLf & CN200 & vbLf & D1
When using Visual C++® : D0\nCN200\nD1

2 Upper Bytes	2 Lower Bytes
∗1	D0
H of CN200	L of CN200
∗1	D1

(Example 3) When devices including FD are specified (3 points in all)

When using Visual Basic® , VBA, VBScript : D0 & vbLf & FD0 & vbLf & D1
When using Visual C++® : D0\nFD0\nD1

2 Upper Bytes	2 Lower Bytes
∗1	D0
∗1	LL of FD0
∗1	D1

(Example 4) When 8-bit devices including EG have been specified (a total of 3 points)
The following example assumes that 8-bit devices (E0000, E0001 of SHARP PLC) have been assigned to EG0.

When using Visual Basic® , VBA, VBScript : D0 & vbLf & EG0 & vbLf & D1
When using Visual C++® : D0\nEG0\nD1

2 Upper Bytes	2 Lower Bytes
∗1	D0
∗1	EG0 (E0001) (E0000)
∗1	D1

∗1: Not used. (0 is stored.)
∗2: Lower bits are stored in device number order.
∗3: For CN200 or later of FXCPU, 2 words are read from 1 point by random read.

(6) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

(1) The maximum number of read points that may be specified in lSize(varSize) is up to 0x7FFFFFFF points.
(2) For lData(lplData or lpvarData), prepare a memory area having the number of points specified in lSize(varSize).
If there is no memory area, a critical phenomenon such as an application error may occur.

4.2.6 WriteDeviceRandom (Device random-write)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Writes data randomly to devices.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.WriteDeviceRandom(szDeviceList, lSize, lData(0))

Long	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Long	lSize	Number of write points	Input
Long	lData(n)	Device values to be written	Input

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.WriteDeviceRandom (szDeviceList, lSize, ＊lplData)

Long	lRet	Returned value	Output
CString	szDeviceList	Device name	Input
Long	lSize	Number of write points	Input
Long	＊lplData	Device values to be written	Input

VBScript : varRet = object.WriteDeviceRandom(varDeviceList, varSize, varData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDeviceList	Device name (character string type)	Input
VARIANT	varSize	Number of write points (LONG type)	Input
VARIANT	varData	Device values to be written (LONG array type)	Input

Visual Basic® .NET : IRet = object.WriteDeviceRandom(szDeviceList, iSize, iData(0))

Integer	IRet	Returned value	Output
String	szDeviceList	Device name	Input
Integer	iSize	Number of write points	Input
Integer	iData(n)	Device values to be written	Input

Visual C++® .NET : iRet = object.WriteDeviceRandom(＊szDeviceList, iSize, ＊iplData)

int	iRet	Returned value	Output
String	＊szDeviceList	Device name	Input
int	iSize	Number of write points	Input
int	＊iplData	Device values to be written	Input

(4) Explanation

(a) The device values for lSize (varSize) are written to the devices specified in szDeviceList (varDeviceList).

(b) The read device values are stored in lData (lplData or varData).

(c) Using the line feed symbol, separate the devices in the character string specified in the device list.
The last device need not be followed by the line feed symbol.
(Example)
Visual Basic® , VBA, VBScript : "D0" & vbLf & "D1" & vbLf & "D2"
Visual C++® : D0\nD1\nD2

(d) Reserve an array of lSize (varSize) or more for lData (lplData or varData).

(5) Device specifying methods

Specify the devices in the following methods.

(Example 1) When devices are specified as follows (3 points)

When using Visual Basic® , VBA, VBScript : M0 & vbLf & D0 & vbLf & K8M0

When using Visual C++® : M0\nD0\nK8M0

2 Upper Bytes	2 Lower Bytes
∗1	M0
∗1	D0
M16 to M31∗2	M0 to M15∗2

(Example 2) When devices including CN200 and later of FXCPU are specified (3 points in all) ∗3

When using Visual Basic® , VBA, VBScript : D0 & vbLf & CN200 & vbLf & D1

When using Visual C++® : D0\nCN200\nD1

2 Upper Bytes	2 Lower Bytes
∗1	D0
H of CN200	L of CN200
∗1	D1

(Example 3) When devices including FD are specified (3 points in all)

When using Visual Basic® , VBA, VBScript : D0 & vbLf & FD0 & vbLf & D1

When using Visual C++® : D0\nFD0\nD1

2 Upper Bytes	2 Lower Bytes
∗1	D0
∗1	LL of FD0
∗1	D1

(Example 4) When 8-bit devices including EG have been specified (a total of 3 points)

The following example assumes that 8-bit devices (E0000, E0001 of SHARP PLC) have been assigned to EG0.

When using Visual Basic® , VBA, VBScript : D0 & vbLf & EG0 & vbLf & D1

When using Visual C++® : D0\nEG0\nD1

2 Upper Bytes	2 Lower Bytes
∗1	D0
∗1	EG0 (E0001) (E0000)
∗1	D1

∗1: Not used. (0 is stored.)

∗2: Lower bits are stored in device number order.

∗3: For CN200 or later of FXCPU, 2 words are written from 1 point by random read.

(6) Returned value

Normal termination : 0 is returned.

Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

(1) The maximum number of write points that may be specified in lSize(varSize) is up to 0x7FFFFFFF points.

(2) For lData(lplData or varData), prepare a memory area having the number of points specified in lSize(varSize).
If there is no memory area, a critical phenomenon such as an application error may occur.

4.2.7 SetDevice (Device data setting)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Sets one point of device.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.SetDevice(Device, lData)

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Long	lData	Set data	Input

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.SetDevice(szDevice, lData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Long	lData	Set data	Input

VBScript : varRet = object.SetDevice(varDevice, lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name (character string type)	Input
VARIANT	varData	Set data (LONG type)	Input

Visual Basic® .NET : lRet = object.SetDevice(szDevice, iData)

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	iData	Set Data	Input

Visual C++® .NET : iRet = object.SetDevice(＊szDevice, iData)

int	iRet	Returned value	Output
String	＊szDevice	Device name	Input
int	iData	Set Data	Input

(4) Explanation

(a) The operation specified in lData(varData) is performed for one point of device specified in szDevice(varDevice).

(b) When the bit device is specified, the least significant bit of the lData value (varData value) becomes valid.

(5) Device specifying methods

Specify the devices in the following methods.

<When bit device is specified>
(Example) M0

2 Upper Bytes	2 Lower Bytes
∗1	M0

<When word device is specified>
(Example) D0

2 Upper Bytes	2 Lower Bytes
∗1	D0

<When double-word device is specified>
(Example) K8M0

2 Upper Bytes	2 Lower Bytes
M16 to M31∗2	M0 to M15∗2

<When CN200 or later of FXCPU is specified>
(Example) CN200

2 Upper Bytes	2 Lower Bytes
H of CN200	L of CN200

<When gateway device is specified>
(Example) When 8-bit devices (E0000, E0001 of SHARP PLC) have been assigned to EG0

2 Upper Bytes	2 Lower Bytes	
∗1	EG0	
	(E0001)	(E0000)

∗1: Not used. (0 is stored.)
∗2: Lower bits are stored in device number order.

(6) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

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4.2.8 GetDevice (Device data acquisition)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Acquires data from one point of device.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.GetDevice(szDevice, lData)

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Long	lData	Acquired data	Output

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.GetDevice(szDevice, ∗lplData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Long	∗lplData	Acquired data	Output

VBScript : varRet = object.GetDevice(varDevice, lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name (character string type)	Input
VARIANT	lpvarData	Acquired data (LONG type)	Output

Visual Basic® .NET : lRet = object.GetDevice(szDevice, iData)

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	iData	Acquired data	Output

Visual C++® .NET : iRet = object.GetDevice(∗szDevice, ∗iplData)

int	iRet	Returned value	Output
String	∗szDevice	Device name	Input
int	∗iplData	Acquired data	Output

(4) Explanation

(a) The data of one point of device specified in szDevice(varDevice) is stored into lData(lplData or lpvarData).

(5) Device specifying methods

Specify the devices in the following methods.

<When bit device is specified>
(Example) M0

2 Upper Bytes	2 Lower Bytes
∗1	M0

<When word device is specified>
(Example) D0

2 Upper Bytes	2 Lower Bytes
∗1	D0

<When double-word device is specified>
(Example) K8M0

2 Upper Bytes	2 Lower Bytes
M16 to M31∗2	M0 to M15∗2

<When CN200 or later of FXCPU is specified>
(Example) CN200

2 Upper Bytes	2 Lower Bytes
H of CN200	L of CN200

<When gateway device is specified>
(Example) When 8-bit devices (E0000, E0001 of SHARP PLC) have been assigned to EG0

2 Upper Bytes	2 Lower Bytes	
∗1	EG0	
	(E0001)	(E0000)

∗1: Not used. (0 is stored.)
∗2: Lower bits are stored in device number order.

(6) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

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4.2.9 ReadBuffer (Buffer memory read)

(1) Applicable ACT controls

The applicable ACT controls are indicated below.

Control Name	Usability
ActEasyIF, ActMLEasyIF	○*7
ActQJ71E71TCP, ActMLQJ71E71TCP	○
ActQJ71E71UDP, ActMLQJ71E71UDP	○
ActAJ71QE71TCP, ActMLAJ71QE71TCP	×
ActAJ71QE71UDP, ActMLAJ71QE71UDP	○*1, *2
ActAJ71E71TCP, ActMLAJ71E71TCP	○*1
ActAJ71E71UDP, ActMLAJ71E71UDP	○*1
ActQNUDECPUTCP, ActMLQNUDECPUTCP	○
ActQNUDECPUUDP, ActMLQNUDECPUUDP	○
ActQCPUQ, ActMLQCPUQ	○
ActQCPUA, ActMLQCPUA	○
ActQnACPU, ActMLQnACPU	○
ActACPU, ActMLACPU	○
ActFXCPU, ActMLFXCPU	○*4
ActQJ71C24, ActMLQJ71C24	○
ActAJ71QC24, ActMLAJ71QC24	○
ActAJ71UC24, ActMLAJ71UC24	×
ActAJ71C24, ActMLAJ71C24	×

Control Name	Usability
ActFX485BD, ActMLFX485BD	×
ActFXCPUUSB, ActMLFXCPUUSB	○
ActQCPUQUSB, ActMLQCPUQUSB	○
ActCCG4Q, ActMLCCG4Q	○
ActCCG4QnA, ActMLCCG4QnA	○
ActCCG4A, ActMLCCG4A	○
ActMnet10BD, ActMLMnet10BD	○*3
ActMnetHBD, ActMLMnetHBD	○*3
ActMnetGBD, ActMLMnetGBD	○*3
ActCCBD, ActMLCCBD	○*3
ActAnUBD, ActMLAnUBD	○*6
ActLLT, ActMLLLT	○*5
ActQCPUQBus, ActMLQCPUQBus	○
ActA6TEL, ActQ6TEL, ActFXCPUTEL, ActAJ71QC24TEL, ActQ71C24TEL	○
ActGOT, ActMLGOT	×
ActSupport, ActMLSupport	×

○: Usable ×: Unusable

*1: An error is returned if access to the AnUCPU, QCPU (A mode), A173UHCPU(-S1) or A273UH-S3) is made.
*2: An error is returned if access to the QnACPU is made.
*3: An error is returned if own board access is made.
*4: An error is returned if the CPU is other than FX2N, FX2NC, FX3U and FX3UC.
*5: An error is returned if the CPU is other than FX0N, FX2, FX2C, FX2N and FX2NC.
*6: An error is returned if access to the QnACPU is made via the MELSECNET/10 or MELSECNET(II).
*7: Depending on the communication path (Ethernet communication, MELSECNET/10 communication, etc.), there will be restrictions as placed on the corresponding communication path controls.

(2) Feature

Reads the buffer memory values of the special function module.

(3) Format

Visual Basic® 6.0, VBA :lRet = object.ReadBuffer(lStartIO, lAddress, lReadSize, iData(0))

Long	lRet	Returned value	Output
Long	lStartIO	First I/O number of module from where values will be read	Input
Long	lAddress	Buffer memory address	Input
Long	lReadSize	Read size	Input
Integer	iData(n)	Values read from buffer memory	Output

Visual C++® 6.0, Visual C++® .NET(MFC) :lRet = object.ReadBuffer (lStartIO, lAddress, lReadSize ＊lpsData)

Long	lRet	Returned value	Output
Long	lStartIO	First I/O number of module from where values will be read	Input
Long	lAddress	Buffer memory address	Input
Long	lReadSize	Read size	Input
Short	＊lpsData	Values read from buffer memory	Output

VBScript :varRet = object.ReadBuffer(varStartIO, varAddress, varReadSize, lpvarData)

VARIANT	varRet	Returned value(LONG type)	Output
VARIANT	varStartIO	First I/O number of module from where values will be read (LONG type)	Input
VARIANT	varAddress	Buffer memory address(LONG type)	Input
VARIANT	varReadSize	Read size(LONG type)	Input
VARIANT	lpvarData	Values read from buffer memory (SHORT array type)	Output

Visual Basic® .NET : IRet = object.ReadBuffer(iStartIO, iAddress, iReadSize, iData(0))

Integer	IRet	Returned value	Output
Integer	iStartIO	First I/O number of module form	Input
Integer	iAddress	Buffer memory address	Input
Integer	iReadSize	Read size	Input
short	iData(n)	Values read from buffer memory	Output

Visual C++® .NET : iRet = object.ReadBuffer(iStartIO, iAddress, iReadSize, ＊ipsData)

int	iRet	Returned value	Output
int	iStartIO	First I/O number of module form	Input
int	iAddress	Buffer memory address	Input
int	iReadSize	Read size	Input
short	＊ipsData	Values read from buffer memory	Output

(4) Explanation

(a) As the module I/O number specified in lStartIO(varStartIO), specify a value found by dividing the actual I/O number by 16.

(b) The buffer values for lReadSize(varReadSize) at the buffer memory address specified in lAddress(varAddress) in the special function module located at the first I/O number specified in lStartIO(varStartIO) are read.

(c) When using the Act(ML)FXCPU control or Act(ML)LLT control, specify the block number (0 to 7) of the special expansion equipment as the module's first I/O number and any of 0 to 32767 as the buffer memory address.

(d) Reserve an array of lReadSize (varReadSize) or more for iData (lplData or lpvarData).

(5) Returned value

Normal termination : 0 is returned.

Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

(6) Instructions for read/write of data from/to buffer memory in multiple PLC system configuration

The following phenomena will occur when the function is executed if the actually configured multiple PLC system differs from the I/O assignment set using GX Developer.

Execute the function after checking the I/O assignment on GX Developer and checking the I/O numbers of the module from/to where the value will be read/written.

(a) An error occurs if the function is executed after the correct I/O numbers have been specified.

(b) When the specific I/O numbers (I/O numbers whose I/O assignment is actually wrong) are specified, read from buffer memory can be performed properly, but write to buffer memory results in an error (error code: 0x010A4030, 0x010A4042, etc.).

(c) Though a PLC CPU error (parameter error, SP. UNIT LAY ERR, etc.) does not occur in the multiple PLC system, execution of the function results in an error in the user application.

POINT

(1) An error is returned if access to the motion controller CPU is made.

(2) For iData (lpsData or lpvarData), prepare a memory area having the number of points specified in lReadSize(varReadSize).
If there is no memory area, a critical phenomenon such as an application error may occur.

(3) When buffer memory read (ReadBuffer) is performed for the QCPU (Q mode), read operation may be performed for only the Q series-dedicated module.
Read from the shared memory of the QCPU (Q mode) cannot be performed, either.

4.2.10 WriteBuffer (Buffer memory write)

(1) Applicable ACT controls

The applicable ACT controls are indicated below.

Control Name	Usability
ActEasyIF, ActMLEasyIF	○∗7, ∗8
ActQJ71E71TCP, ActMLQJ71E71TCP	○∗8
ActQJ71E71UDP, ActMLQJ71E71UDP	○∗8
ActAJ71QE71TCP, ActMLAJ71QE71TCP	×
ActAJ71QE71UDP, ActMLAJ71QE71UDP	○∗1, ∗2
ActAJ71E71TCP, ActMLAJ71E71TCP	○∗1
ActAJ71E71UDP, ActMLAJ71E71UDP	○∗1
ActQNUDECPUTCP, ActMLQNUDECPUTCP	○∗8
ActQNUDECPUUDP, ActMLQNUDECPUUDP	○∗8
ActQCPUQ, ActMLQCPUQ	○∗8
ActQCPUA, ActMLQCPUA	○
ActQnACPU, ActMLQnACPU	○
ActACPU, ActMLACPU	○
ActFXCPU, ActMLFXCPU	○∗4
ActQJ71C24, ActMLQJ71C24	○∗8
ActAJ71QC24, ActMLAJ71QC24	○
ActAJ71UC24, ActMLAJ71UC24	×
ActAJ71C24, ActMLAJ71C24	×

Control Name	Usability
ActFX485BD, ActMLFX485BD	×
ActFXCPUUSB, ActMLFXCPUUSB	○
ActQCPUQUSB, ActMLQCPUQUSB	○∗8
ActCCG4Q, ActMLCCG4Q	○∗8
ActCCG4QnA, ActMLCCG4QnA	○
ActCCG4A, ActMLCCG4A	○
ActMnet10BD, ActMLMnet10BD	○∗3, ∗8
ActMnetHBD, ActMLMnetHBD	○∗3, ∗8
ActMnetGBD, ActMLMnetGBD	○∗3, ∗8
ActCCBD, ActMLCCBD	○∗3
ActAnUBD, ActMLAnUBD	○∗6
ActLLT, ActMLLLT	○∗5
ActQCPUQBus, ActMLQCPUQBus	○
ActA6TEL, ActQ6TEL, ActFXCPUTEL, ActAJ71QC24TEL, ActQ71C24TEL	○
ActGOT, ActMLGOT	×
ActSupport, ActMLSupport	×

○: Usable ×: Unusable

∗1: An error is returned if access to the AnUCPU, QCPU (A mode), A173UHCPU(-S1) or A273UH(-S3) is made.
∗2: An error is returned if access to the QnACPU is made.
∗3: An error is returned if own board access is made.
∗4: An error is returned if the CPU is other than FX_{2N}, FX_{2NC}, FX_{3U} and FX_{3UC}.
∗5: An error is returned if the CPU is other than FX_{0N}, FX_{2}, FX_{2C}, FX_{2N} and FX_{2NC}.
∗6: An error is returned if access to the QnACPU is made via the MELSECNET/10 or MELSECNET(II).
∗7: Depending on the communication path (Ethernet communication, MELSECNET/10 communication, etc.), there will be restrictions as placed on the corresponding communication path controls.
∗8: An error is returned if access to the QSCPU is made.

(2) Feature

Writes values to the buffer memory of the special function module.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.WriteBuffer(lStartIO, lAddress, lWriteSize, iData(0))

Long	lRet	Returned value	Output
Long	lStartIO	First I/O number of module to where values will be written	Input
Long	lAddress	Buffer memory address	Input
Long	lWriteSize	Write size	Input
Integer	iData(n)	Values written to buffer memory	Input

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object. WriteBuffer (lStartIO, lAddress, lWriteSize ＊lpsData)

Long	lRet	Returned value	Output
Long	lStartIO	First I/O number of module to where values will be written	Input
Long	lAddress	Buffer memory address	Input
Long	lWriteSize	Write size	Input
Short	＊lpsData	Values written to buffer memory	Input

VBScript : varRet = object.WriteBuffer(varStartIO, varAddress, varWriteSize, varData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varStartIO	First I/O number of module to where values will be written (LONG type)	Input
VARIANT	varAddress	Buffer memory address (LONG type)	Input
VARIANT	varWriteSize	Write size (LONG type)	Input
VARIANT	varData	Values written to buffer memory (SHORT array type)	Input

Visual Basic® .NET : IRet = object.WriteBuffer(iStartIO, iAddress, iWriteSize, iData(0))

Integer	IRet	Returned value	Output
Integer	iStartIO	First I/O number of module to where values will be written	Input
Integer	iAddress	Buffer memory address	Input
Integer	iWriteSize	Write size	Input
short	iData(n)	Values written to buffer memory	Output

Visual C++® .NET : iRet = object.WriteBuffer(iStartIO, iAddress, iWriteSize, ＊ipsData)

int	iRet	Returned value	Output
int	iStartIO	First I/O number of module to where values will be written	Input
int	iAddress	Buffer memory address	Input
int	iWriteSize	Write size	Input
short	＊ipsData	Values written to buffer memory	Output

(4) Explanation

(a) As the module I/O number specified in lStartIO(varStartIO), specify a value found by dividing the actual I/O number by 16.

(b) The buffer values for lWriteSize(varWriteSize) at the buffer memory address specified in lAddress(varAddress) in the special function module located at the first I/O number specified in lStartIO(varStartIO) are written.

(c) When using the Act(ML)FXCPU control or Act(ML)LLT control, specify the block number (0 to 7) of the special expansion equipment as the module's first I/O number and any of 0 to 32767 as the buffer memory address.

(d) Reserve an array of lWriteSize (varWriteSize) or more for iData (lpsData or varData).

(5) Returned value

Normal termination : 0 is returned.

Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

(6) Instructions for read/write of data from/to buffer memory in multiple PLC system configuration

The following phenomena will occur when the function is executed if the actually configured multiple PLC system differs from the I/O assignment set using GX Developer.

Execute the function after checking the I/O assignment on GX Developer and checking the I/O numbers of the module from/to where the value will be read/written.

(a) An error occurs if the function is executed after the correct I/O numbers have been specified.

(b) When the specific I/O numbers (I/O numbers whose I/O assignment is actually wrong) are specified, read from buffer memory can be performed properly, but write to buffer memory results in an error (error code: 0x010A4030, 0x010A4042, etc.).

(c) Though a PLC CPU error (parameter error, SP. UNIT LAY ERR, etc.) does not occur in the multiple PLC system, execution of the function results in an error in the user application.

POINT

(1) An error is returned if access to the motion controller CPU is made.

(2) For iData(lpsData,varData), prepare a memory area having the number of points specified in lWriteSize(varWriteSize).
If there is no memory area, a critical phenomenon such as an application error may occur.

(3) When buffer memory write (WriteBuffer) is performed for the QCPU (Q mode), write operation may be performed for only the Q series-dedicated module.
Write to the shared memory of the QCPU (Q mode) cannot be performed, either.

4.2.11 GetClockData (Clock data read)

(1) Applicable ACT controls

The applicable ACT controls are indicated below.

Control Name	Usability
ActEasyIF, ActMLEasyIF	○*4
ActQJ71E71TCP, ActMLQJ71E71TCP	○
ActQJ71E71UDP, ActMLQJ71E71UDP	○
ActAJ71QE71TCP, ActMLAJ71QE71TCP	○
ActAJ71QE71UDP, ActMLAJ71QE71UDP	○
ActAJ71E71TCP, ActMLAJ71E71TCP	○*2
ActAJ71E71UDP, ActMLAJ71E71UDP	○*2
ActQNUDECPUTCP, ActMLQNUDECPUTCP	○
ActQNUDECPUUDP, ActMLQNUDECPUUDP	○
ActQCPUQ, ActMLQCPUQ	○
ActQCPUA, ActMLQCPUA	○
ActQnACPU, ActMLQnACPU	○
ActACPU, ActMLACPU	○
ActFXCPU, ActMLFXCPU	○
ActQJ71C24, ActMLQJ71C24	○
ActAJ71QC24, ActMLAJ71QC24	○*2
ActAJ71UC24, ActMLAJ71UC24	○*2
ActAJ71C24, ActMLAJ71C24	○

Control Name	Usability
ActFX485BD, ActMLFX485BD	○
ActFXCPUUSB, ActMLFXCPUUSB	○
ActQCPUQUSB, ActMLQCPUQUSB	○
ActCCG4Q, ActMLCCG4Q	○
ActCCG4QnA, ActMLCCG4QnA	○
ActCCG4A, ActMLCCG4A	○
ActMnet10BD, ActMLMnet10BD	○*1
ActMnetHBD, ActMLMnetHBD	○*1
ActMnetGBD, ActMLMnetGBD	○*1
ActCCBD, ActMLCCBD	○*1
ActAnUBD, ActMLAnUBD	○*3
ActLLT, ActMLLLT	○
ActQCPUQBus, ActMLQCPUQBus	○
ActA6TEL, ActQ6TEL, ActFXCPUTEL, ActAJ71QC24TEL, ActQ71C24TEL	○
ActGOT, ActMLGOT	×
ActSupport, ActMLSupport	×

○: Usable ×: Unusable

*1: An error is returned if own board access is made.
*2: An error is returned if access to the QnACPU is made.
*3: An error is returned if access to the QnACPU is made via the MELSECNET/10 or MELSECNET(II).
*4: Depending on the communication path (Ethernet communication, MELSECNET/10 communication, etc.), there will be restrictions as placed on the corresponding communication path controls.

(2) Feature

Reads time from the clock data of the PLC CPU.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.GetClockData(iYear, iMonth, iDay, iDayOfWeek, iHour, iMinute, iSecond)

Long	lRet	Returned value	Output
Integer	iYear	Read year value	Output
Integer	iManth	Read month value	Output
Integer	iDay	Read day value	Output
Integer	iDayOfWeek	Read day-of-week value	Output
Integer	iHour	Read hour value	Output
Integer	iMinute	Read minute value	Output
Integer	iSecond	Read second value	Output

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object. GetClockData
(∗lpsYear, ∗lpsMonth,
∗lpsDay, ∗lpsDayOfWeek,
∗lpsHour, ∗lpsMinute,
∗lpsSecond)

Long	lRet	Returned value	Output
Short	∗lpsYear	Read year value	Output
Short	∗lpsMonth	Read month value	Output
Short	∗lpsDay	Read day value	Output
Short	∗lpsDaYOfWeek	Read day-of-week value	Output
Short	∗lpsHour	Read hour value	Output
Short	∗lpsMinute	Read minute value	Output
Short	∗lpsSecond	Read second value	Output

VBScript : varRet = object.GetClockData(lpvarYear, lpvarMonth, lpvarDay,
lpvarDayOfWeek, lpvarHour, lpvarMinute, lpSecond)

VARIANT	varRet	Returned value(LONG type)	Output
VARIANT	lpvarYear	Read year value(SHORT type)	Output
VARIANT	lpvarManth	Read month value(SHORT type)	Output
VARIANT	lpvarDay	Read day value(SHORT type)	Output
VARIANT	lpvarDayOfWeek	Read day-of-week value(SHORT type)	Output
VARIANT	lpvarHour	Read hour value(SHORT type)	Output
VARIANT	lpvarMinute	Read minute value(SHORT type)	Output
VARIANT	lpvarSecond	Read second value(SHORT type)	Output

Visual Basic® .NET : IRet = object.GetClockData(iYear, iMonth, iDay,
iDayOfWeek, iHour, iMinute, iSecond)

Integer	IRet	Returned value	Output
short	iYear	Read year value	Output
short	iMonth	Read month value	Output
short	iDay	Read day value	Output
short	iDayOfWeek	Read day-of-week value	Output
short	iHour	Read hour value	Output
short	iMinute	Read minute value	Output
short	iSecond	Read second value	Output

Visual C++® .NET : iRet = object.GetClockData(∗lpsYear, ∗lpsMonth, ∗lpsDay,
∗lpsDayOfWeek, ∗lpsHour, ∗lpsMinute, ∗lpsSecond)

int	iRet	Returned value	Output
short	∗lpsYear	Read year value	Output
short	∗lps Month	Read month value	Output
short	∗lps Day	Read day value	Output
short	∗lps DayOfWeek	Read day-of-week value	Output
short	∗lps Hour	Read hour value	Output
short	∗lps Minute	Read minute value	Output
short	∗lps Second	Read second value	Output

(4) Explanation

(a) An error is returned if correct clock data is not set to the PLC CPU.

(b) As the value stored into iYear (lpsYear or lpvarYear), a four-digit year is returned for the QCPU (Q mode) or a two-digit year for any other CPU. Note that the year for the QCPU (Q mode) is between 1980 and 2079.

(c) The value stored into iDayOfWeek (lpsDayOfWeek or lpvarDayOfWeek) is as follows.

Value	Day of Week
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday

(5) Returned value

Normal termination : 0 is returned.

Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

(1) Clock data cannot be read from the A0J2HCPU, A2CCPU and A2CJCPU as they do not have clock data.

(2) The QCPU (A mode) and ACPU can get clock data only when the target station is in the STOP status.

(3) For the FXCPU, clock data can be read from the FX1N, FX1NC, FX1S, FX2N or FX3G when it has a built-in clock, or from the FX2, FX2C or FX2NC when it is fitted with the RTC cassette.
An error is returned if the FXCPU is other than the FX1N, FX1NC, FX1S, FX2, FX2C, FX2N, FX2NC, FX3U, FX3UC and FX3G.

(4) Note that an error of transfer time is produced in clock setting.

4.2.12 SetClockData (Clock data write)

(1) Applicable ACT controls

The applicable ACT controls are indicated below.

Control Name	Usability
ActEasyIF, ActMLEasyIF	○*4, *5
ActQJ71E71TCP, ActMLQJ71E71TCP	○*5
ActQJ71E71UDP, ActMLQJ71E71UDP	○*5
ActAJ71QE71TCP, ActMLAJ71QE71TCP	○
ActAJ71QE71UDP, ActMLAJ71QE71UDP	○
ActAJ71E71TCP, ActMLAJ71E71TCP	○*2
ActAJ71E71UDP, ActMLAJ71E71UDP	○*2
ActQNUDECPUTCP, ActMLQNUDECPUTCP	○*5
ActQNUDECPUUDP, ActMLQNUDECPUUDP	○*5
ActQCPUQ, ActMLQCPUQ	○*5
ActQCPUA, ActMLQCPUA	○
ActQnACPU, ActMLQnACPU	○
ActACPU, ActMLACPU	○
ActFXCPU, ActMLFXCPU	○
ActQJ71C24, ActMLQJ71C24	○*5
ActAJ71QC24, ActMLAJ71QC24	○*2
ActAJ71UC24, ActMLAJ71UC24	○*2
ActAJ71C24, ActMLAJ71C24	○

Control Name	Usability
ActFX485BD, ActMLFX485BD	○
ActFXCPUUSB, ActMLFXCPUUSB	○
ActQCPUQUSB, ActMLQCPUQUSB	○*5
ActCCG4Q, ActMLCCG4Q	○*5
ActCCG4QnA, ActMLCCG4QnA	○
ActCCG4A, ActMLCCG4A	○
ActMnet10BD, ActMLMnet10BD	○*1, *5
ActMnetHBD, ActMLMnetHBD	○*1, *5
ActMnetGBD, ActMLMnetGBD	○*1, *5
ActCCBD, ActMLCCBD	○*1, *5
ActAnUBD, ActMLAnUBD	○*3
ActLLT, ActMLLLT	○
ActQCPUQBus, ActMLQCPUQBus	○
ActA6TEL, ActQ6TEL, ActFXCPUTEL, ActAJ71QC24TEL, ActQ71C24TEL	○
ActGOT, ActMLGOT	×
ActSupport, ActMLSupport	×

○: Usable ×: Unusable

*1: An error is returned if own board access is made.
*2: An error is returned if access to the QnACPU is made.
*3: An error is returned if access to the QnACPU is made via the MELSECNET/10 or MELSECNET(II).
*4: Depending on the communication path (Ethernet communication, MELSECNET/10 communication, etc.), there will be restrictions as placed on the corresponding communication path controls.
*5: An error is returned if access to the QSCPU is made.

(2) Feature

Writes time to the clock data of the PLC CPU.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.SetClockData(iYear, iMonth, iDay, iDayOfWeek, iHour, iMinute, iSecond)

Long	lRet	Returned value	Output
Integer	iYear	Year value to be written	Input
Integer	iManth	Month value to be written	Input
Integer	iDay	Day value to be written	Input
Integer	iDayOfWeek	Day-of-week value to be written	Input
Integer	iHour	Hour value to be written	Input
Integer	iMinute	Minute value to be written	Input
Integer	iSecond	Second value to be written	Input

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.SetClockData (sYear, sMonth, sDay, sDayOfWeek, sHour, sMinute, sSecond)

Long	lRet	Returned value	Output
Short	sYear	Year value to be written	Input
Short	sMonth	Month value to be written	Input
Short	sDay	Day value to be written	Input
Short	sDaYOfWeek	Day-of-week value to be written	Input
Short	sHour	Hour value to be written	Input
Short	sMinute	Minute value to be written	Input
Short	sSecond	Second value to be written	Input

VBScript : varRet = object.SetClockData(varYear, varMonth, varDay, varDayOfWeek, varHour, varMinute, varSecond)

VARIANT	varRet	Returned value(LONG type)	Output
VARIANT	varYear	Year value to be written(SHORT type)	Input
VARIANT	varManth	Month value to be written(SHORT type)	Input
VARIANT	varDay	Day value to be written(SHORT type)	Input
VARIANT	varDayOfWeek	Day-of-week value to be written (SHORT type)	Input
VARIANT	varHour	Hour value to be written(SHORT type)	Input
VARIANT	varMinute	Minute value to be written(SHORT type)	Input
VARIANT	varSecond	Second value to be written(SHORT type)	Input

Visual Basic® .NET : IRet = object.SetClockData(iYear, iMonth, iDay, iDayOfWeek, iHour, iMinute, iSecond)

Integer	IRet	Returned value	Output
short	iYear	Year value to be written	Input
short	iMonth	Month value to be written	Input
short	iDay	Day value to be written	Input
short	iDayOfWeek	Day-of-week value to be written	Input
short	iHour	Hour value to be written	Input
short	iMinute	Minute value to be written	Input
short	iSecond	Second value to be written	Input

Visual C++® .NET : iRet = object.SetClockData(sYear, sMonth, sDay, sDayOfWeek, sHour, sMinute, sSecond)

int	iRet	Returned value	Output
short	sYear	Year value to be written	Input
short	sMonth	Month value to be written	Input
short	sDay	Day value to be written	Input
short	sDayOfWeek	Day-of-week value to be written	Input
short	sHour	Hour value to be written	Input
short	sMinute	Minute value to be written	Input
short	sSecond	Second value to be written	Input

(4) Explanation

(a) An error is returned if the clock data to be set are not correct values.

(b) As to the value specified in iYear (sYear or varYear), a four-digit year is valid for the QCPU (Q mode) or a two-digit year for any other CPU.
Note that the year valid for the QCPU (Q mode) is between 1980 and 2079.
An error will occur if a four-digit year is set to any CPU other than the QCPU (Q mode).

(c) The value to be specified in iDayOfWeek (sDayOfWeek or varDayOfWeek) is as follows.

Value	Day of Week
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday

(5) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

(1) Clock data cannot be read from the A0J2HCPU, A2CCPU and A2CJCPU as they do not have clock data.

(2) For the QCPU (A mode) and ACPU, clock data can be set only when the target station is in the STOP status.

(3) For the QCPU (A mode) and ACPU, the clock setting special relay "M9028" changes to OFF after clock data setting.

(4) For the FXCPU, clock setting can be made to the FX1N, FX1NC, FX1S, FX2N or FX3G when it has a built-in clock, or to the FX2, FX2C or FX2NC when it is fitted with the RTC cassette.
An error is returned if the FXCPU is other than the FX1N, FX1NC, FX1S, FX2, FX2C, FX2N, FX2NC, FX3U, FX3UC and FX3G.

(5) Note that an error of transfer time is produced in clock setting.

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4.2.13 GetCpuType (PLC CPU type read)

(1) Applicable ACT controls

This function is available for all ACT controls*1 but the ActSupoort and ActMLSupport controls.

*1: MELSECNET/10 board will result in an error if own board access is made.

(2) Feature

Reds the type character string and type code of the PLC CPU, Network Board and GOT.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.GetCpuType(szCpuName, lCpuType)

Long	lRet	Returned value	Output
String	szCpuName	PLC CPU type character string	Output
Long	lCpuType	PLC CPU type code	Output

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.GetCpuType (*szCpuType, *lplCpuType)

Long	lRet	Returned value	Output
BSTR	*szCpuName	PLC CPU type character string	Output
Long	*lplCpuType	PLC CPU type code	Output

VBScript : varRet = object.GetCpuType(varCpuName, lpvarCpuCode)

VARIANT	varRet	Returned value(LONG type)	Output
VARIANT	lpvarCpuName	PLC CPU type character string (character string type)	Output
VARIANT	lpvarCpuCode	PLC CPU type code(LONG type)	Output

Visual Basic® .NET : lRet = object.GetCpuType(szCpuName, lCpuType)

Integer	lRet	Returned value	Output
String	szCpuName	PLC CPU type character string	Output
Integer	lCpuType	PLC CPU type code	Output

Visual C++® .NET : iRet = object.GetCpuType (**szCpuName, *iplCpuType)

int	iRet	Returned value	Output
String	**szCpuName	PLC CPU type character string	Output
int	*iplCpuType	PLC CPU type code	Output

(4) Explanation

(a) The type of the PLC which is making communication is stored into szCpuName (lpvarCpuName) and its type code into lCpuType (lplCpuType or lpvarCpuCode).

(b) The PLC CPU type character string is returned in UNICODE.

(5) CPU type character string and type code

The following table lists the CPU, Network Board and GOT type character strings and type codes read using GetCpuType.

(a) Type character string list

CPU/Network Board/GOT Type	Type Character String		CPU/Network Board/GOT Type	Type Character String	
	CPU/Network Board Type	When GX Simulator is connected		CPU/Network Board Type	When GX Simulator is connected
Q00JCPU	Q00JCPU	Q00JCPU	A2NCPU	A2N	A2N
Q00UJCPU	Q00UJCPU	Q00UJCPU	A2NCPU-S1	A2N	A2N
Q00CPU	Q00CPU	Q00CPU	A2SCPU	A2S	A2N
Q00UCPU	Q00UCPU	Q00UCPU	A2SCPU-S1	A2S	A2N
Q01CPU	Q01CPU	Q01CPU	A2SHCPU	A2SH	A2SH
Q01UCPU	Q01UCPU	Q01UCPU	A2SHCPU-S1	A2SH	A2SH
Q02CPU	Q02CPU	Q02CPU	A2ACPU	A2A	A2AS1
Q02HCPU	Q02HCPU	Q02CPU	A2ACPU-S1	A2AS1	A2AS1
Q06HCPU	Q06HCPU	Q06HCPU	A2ACPUP21/R21	A2AS1	A2AS1
Q12HCPU	Q12HCPU	Q12HCPU	A2ACPUP21/R21-S1	A2AS1	A2AS1
Q25HCPU	Q25HCPU	Q25HCPU	A2UCPU	A2U	A2U
Q02PHCPU	Q02PHCPU	Q02PHCPU	A2UCPU-S1	A2US1	A2U
Q06PHCPU	Q06PHCPU	Q06PHCPU	A2USCPU	A2U	A2U
Q12PHCPU	Q12HCPU	Q12HCPU	A2USCPU-S1	A2US1	A2U
Q25PHCPU	Q25HCPU	Q25HCPU	A2ASCPU	A2U	A2U
Q12PRHCPU	Q12PRHCPU	Q12PRHCPU	A2ASCPU-S1	A2US1	A2U
Q25PRHCPU	Q25PRHCPU	Q25PRHCPU	A2ASCPU-S30	A3U	A3U
Q02UCPU	Q02UCPU	Q02UCPU	A2USHCPU-S1	A2USH	A2USH
Q03UDCPU	Q03UDCPU	Q03UDCPU	A3NCPU	A3N	A3N
Q04UDHCPU	Q04UDHCPU	Q04UDHCPU	A3ACPU	A3A	A3A
Q06UDHCPU	Q06UDHCPU	Q06UDHCPU	A3ACPUP21/R21	A3A	A3A
Q10UDHCPU	Q10UDHCPU	Q10UDHCPU	A3UCPU	A3U	A3U
Q13UDHCPU	Q13UDHCPU	Q13UDHCPU	A4UCPU	A4U	A4U
Q20UDHCPU	Q20UDHCPU	Q20UDHCPU	A1FXCPU	A1FX	A1FX
Q26UDHCPU	Q26UDHCPU	Q26UDHCPU	FX_0	FX_0/FX_{0S}	FX_0/FX_{0S}
Q03UDECPU	Q03UDECPU	Q03UDECPU	FX_{0S}	FX_0/FX_{0S}	FX_0/FX_{0S}
Q04UDEHCPU	Q04UDEHCPU	Q04UDEHCPU	FX_{0N}	FX_{0N}	FX_{0N}
Q06UDEHCPU	Q06UDEHCPU	Q06UDEHCPU	FX_1	FX_1	FX_1
Q10UDEHCPU	Q10UEDHCPU	Q10UEDHCPU	FX_{1S}	FX_{1S}	FX_{1S}
Q13UDEHCPU	Q13UDEHCPU	Q13UDEHCPU	FX_{1N}	FX_{1N}	FX_{1N}
Q20UDEHCPU	Q20UDEHCPU	Q20UDEHCPU	FX_{1NC}	FX_{1N}	FX_{1N}
Q26UDEHCPU	Q26UDEHCPU	Q26UDEHCPU	FX_2	FX_2/FX_{2C}	FX_2/FX_{2C}
QS001CPU	QS001CPU	—	FX_{2C}	FX_2/FX_{2C}	FX_2/FX_{2C}
Q02CPU-A	Q02CPU	Q02CPU-A	FX_{2N}	FX_{2N}/FX_{2NC}	FX_{2N}/FX_{2NC}
Q02HCPU-A	Q02HCPU	Q02CPU-A	FX_{2NC}	FX_{2N}/FX_{2NC}	FX_{2N}/FX_{2NC}
Q06HCPU-A	Q06HCPU	Q06HCPU-A	FX_{3G}	FX_{3G}	FX_{3G}
Q2ACPU	Q2ACPU	Q2ACPU	FX_{3U}	FX_{3UC}	FX_{3UC}
Q2ACPU-S1	Q2ACPU-S1	Q2ACPU-S1	FX_{3UC}	FX_{3UC}	FX_{3UC}
Q2ASCPU	Q2ACPU	Q2ACPU	A171SHCPU	A171SH	A171SH
Q2ASCPU-S1	Q2ACPU-S1	Q2ACPU-S1	A172SHCPU	A172SH	A172SH
Q2ASHCPU	Q2ACPU	Q2ACPU	A173UHCPU	A173UHCPU	A173UH
Q2ASHCPU-S1	Q2ACPU-S1	Q2ACPU-S1	A173UHCPU-S1	A173UHCPU-S1	A173UH
Q3ACPU	Q3ACPU	Q3ACPU	A273UHCPU	A273UH	A273UH
Q4ACPU	Q4ACPU	Q4ACPU	A273UHCPU-S3	A273UH	A273UH
Q4ARCPU	Q4ACPU	Q4ACPU	A70BDE-J71QLP23(GE)	A70BDE-J71QLP23	—
A0J2HCPU	A0J2H	A0J2H	A70BDE-J71QBR13	A70BDE-J71QBR13	—
A1SCPU	A1S	A1S	A70BDE-J71QLR23	A70BDE-J71QLR23	—
A1SCPU-S1	A1S	A1S	A80BDE-J61BT11	A80BDE-J61BT11	—
A1SCPUC24-R2	A1S	A1S	A80BDE-J61BT13	A80BDE-J61BT13	—
A1SHCPU	A1SH	A1SH	A80BDE-A2USH-S1	A2USH-S1	—
A1SJCPU	A1S	A1S	Q80BD-J71LP21-25	Q80BD-J71LP21-25	—
A1SJHCPU	A1SH	A1SH	Q80BD-J71LP21G	Q80BD-J71LP21G	—
A1NCPU	A1N	A1N	Q80BD-J71BR11	Q80BD-J71BR11	—
A2CCPU	A2C	A2C	GOT	＊1	—
A2CCPUC24	A2C	A2C			
A2CCPUC24-PRF	A2C	A2C			
A2CJCPU	A2C	A2C			

＊1: Display the product model number of the GOT

1) When access is made from the C24, E71 or MELSECNET(II) board to the AnUCPU, QnACPU, QCPU (A mode) or A273UHCPU(-S3), the AnACPU-equivalent model name character string (A2A, A3A) is returned.

2) When access is made from the C24, UC24 or E71 to the AnNCPU, the AnNCPU-equivalent model name character string (A1N, A2N, A3N) is returned.
However, this does not apply to the following two cases.
- When access is made from the C24 or E71 to the A1S or A1SJ, the model name character string of the A0J2H is returned.
- When access is made from the UC24 to the A1S or A1SJ, the model name character string of the A1S is returned.

3) When access is made from the UC24 to the Q4ACPU, the model name character string of the Q3ACPU is returned.

4) When access is made from the QE71 to the QnACPU, the model name character string of the Q4ACPU is returned. 1) When access is made from the C24, E71 or MELSECNET(II) board to the AnUCPU, QnACPU, QCPU (A mode) or A273UHCPU(-S3), the AnACPU-equivalent model name character string (A2A, A3A) is returned.

(b) Type code list

CPU/Network Board/GOT Type	Type Code		CPU/Network Board/GOT Type	Type Code	
	When CPU/own board is connected	When GX Simulator is connected		When CPU/own board is connected	When GX Simulator is connected
Q00JCPU	250H	250H	A2CJCPU	9AH	9AH
Q00UJCPU	260H	—	A2NCPU	A2H	A2H
Q00CPU	251H	251H	A2NCPU-S1	A2H	A2H
Q00UCPU	261H	—	A2SCPU	A2H	A2H
Q01CPU	252H	252H	A2SCPU-S1	A2H	A2H
Q01UCPU	262H	—	A2SHCPU	A3H	A3H
Q02CPU	41H	41H	A2SHCPU-S1	A3H	A3H
Q02HCPU	41H	41H	A2ACPU	92H	92H
Q06HCPU	42H	42H	A2ACPU-S1	93H	93H
Q12HCPU	43H	43H	A2ACPUP21/R21	92H	93H
Q25HCPU	44H	44H	A2ACPUP21/R21-S1	93H	93H
Q02PHCPU	41H	—	A2UCPU	82H	82H
Q06PHCPU	42H	—	A2UCPU-S1	83H	83H
Q12PHCPU	43H	43H	A2USCPU	82H	82H
Q25PHCPU	44H	44H	A2USCPU-S1	83H	82H
Q12PRHCPU	4BH	4BH	A2ASCPU	82H	82H
Q25PRHCPU	4CH	4CH	A2ASCPU-S1	82H	82H
Q02UCPU	263H	—	A2ASCPU-S30	94H	84H
Q03UDCPU	268H	—	A2USHCPU-S1	84H	84H
Q04UDHCPU	269H	—	A3NCPU	A3H	A3H
Q06UDHCPU	26AH	—	A3ACPU	94H	94H
Q10UDHCPU	266H	—	A3ACPUP21/R21	94H	94H
Q13UDHCPU	26BH	—	A3UCPU	84H	84H
Q20UDHCPU	267H	—	A4UCPU	85H	85H
Q26UDHCPU	26CH	—	A1FXCPU	A2H	A2H
Q03UDECPU	268H	—	FX_0	F0H	F0H
Q04UDEHCPU	269H	—	FX_{0S}	F0H	F0H
Q06UDEHCPU	26AH	—	FX_{0N}	8EH	8EH
Q10UDEHCPU	266H	—	FX_1	F1H	F1H
Q13UDEHCPU	26BH	—	FX_{1S}	F2H	F2H
Q20UDEHCPU	267H	—	FX_{1N}	9EH	9EH
Q26UDEHCPU	26CH	—	FX_{1NC}	9EH	9EH
QS001CPU	230H	—	FX_2	8DH	8DH
Q02CPU-A	141H	141H	FX_{2C}	8DH	8DH
Q02HCPU-A	141H	141H	FX_{2N}	9DH	9DH
Q06HCPU-A	142H	142H	FX_{2NC}	9DH	9DH
Q2ACPU	21H	21H	FX_{3G}	F4H	—
Q2ACPU-S1	22H	22H	FX_{3U}	F3H	F3H
Q2ASCPU	21H	21H	FX_{3UC}	F3H	F3H
Q2ASCPU-S1	22H	22H	A171SHCPU	A3H	A3H
Q2ASHCPU	21H	21H	A172SHCPU	A3H	A3H
Q2ASHCPU-S1	22H	22H	A173UHCPU	84H	84H
Q3ACPU	23H	23H	A173UHCPU-S1	84H	84H
Q4ACPU	24H	24H	A273UHCPU	84H	84H
Q4ARCPU	24H	24H	A273UHCPU-S3	84H	84H
A0J2HCPU	98H	98H	A70BDE-J71QLP23(GE)	90H	—
A1SCPU	98H	98H	A70BDE-J71QBR13	90H	—
A1SCPU-S1	98H	98H	A70BDE-J71QLR23	90H	—
A1SCPUC24-R2	98H	98H	A80BDE-J61BT11	90H	—
A1SHCPU	A3H	A3H	A80BDE-J61BT13	90H	—
A1SJCPU	98H	98H	A80BDE-A2USH-S1	84H	—
A1SJHCPU	A3H	A3H	Q80BD-J71LP21-25	90H	—
A1NCPU	A1H	A1H	Q80BD-J71LP21G	90H	—
A2CCPU	9AH	9AH	Q80BD-J71BR11	90H	—
A2CCPUC24	9AH	9AH	GOT	E340H	—
A2CCPUC24-PRF	9AH	9AH			

1) When using the TCP/IP of the E71 or QE71, refer to the manual of the corresponding module.

2) When access to the AnUCPU, QnACPU, QCPU (A mode) or A273UHCPU(-S3) is made from the C24 or E71, the type code equivalent to that of the AnACPU is returned. (92H, 93H, 94H)

3) When access to the AnUCPU, QnACPU, QCPU (A mode) or A273UHCPU(-S3) is made from the C24, E71 or UC24 via the network, the type code equivalent to that of the AnACPU is returned. (92H, 93H, 94H)

4) When access to the AnUCPU, QCPU (A mode) or A273UHCPU(-S3) is made from the AnNCPU or AnACPU via the network by CPU COM communication, the type code equivalent to that of the AnACPU is returned. (92H, 93H, 94H)

5) When access to the QnACPU or QCPU (A mode) is made from the CPU board, the type code equivalent to that of the AnACPU (92H, 93H, 94H) is returned for the QnACPU or the type code equivalent to that of the A4UCPU (85H) is returned for the QCPU (A mode).

6) When access to the QCPU (A mode) is made from the UC24, the type code equivalent to that of the A4UCPU (85H) is returned.

7) When access to the QCPU (A mode) is made from the CC-Link G4 module, the type code equivalent to that of the A4UCPU (85H) is returned.

(6) Returned value

Normal termination : 0 is returned.
Normal termination : Abnormal termination: A value other than 0 is returned. (Refer to Chapter 6 ERROR CODES.)

4.2.14 SetCpuStatus (Remote control)

(1) Applicable ACT controls

The applicable ACT controls are indicated below.

Control Name	Usability
ActEasyIF, ActMLEasyIF	○∗5, ∗7
ActQJ71E71TCP, ActMLQJ71E71TCP	○∗7
ActQJ71E71UDP, ActMLQJ71E71UDP	○∗7
ActAJ71QE71TCP, ActMLAJ71QE71TCP	○∗1
ActAJ71QE71UDP, ActMLAJ71QE71UDP	○
ActAJ71E71TCP, ActMLAJ71E71TCP	○∗1
ActAJ71E71UDP, ActMLAJ71E71UDP	○
ActQNUDECPUTCP, ActMLQNUDECPUTCP	○∗7
ActQNUDECPUUDP, ActMLQNUDECPUUDP	○∗7
ActQCPUQ, ActMLQCPUQ	○∗7
ActQCPUA, ActMLQCPUA	○
ActQnACPU, ActMLQnACPU	○
ActACPU, ActMLACPU	○
ActFXCPU, ActMLFXCPU	○∗4∗6
ActQJ71C24, ActMLQJ71C24	○∗7
ActAJ71QC24, ActMLAJ71QC24	○
ActAJ71UC24, ActMLAJ71UC24	○∗4
ActAJ71C24, ActMLAJ71C24	○∗4

Control Name	Usability
ActFX485BD, ActMLFX485BD	○∗4∗6
ActFXCPUUSB, ActMLFXCPUUSB	○
ActQCPUQUSB, ActMLQCPUQUSB	○∗7
ActCCG4Q, ActMLCCG4Q	○∗7
ActCCG4QnA, ActMLCCG4QnA	○
ActCCG4A, ActMLCCG4A	○
ActMnet10BD, ActMLMnet10BD	○∗2, ∗7
ActMnetHBD, ActMLMnetHBD	○∗2, ∗7
ActMnetGBD, ActMLMnetGBD	○∗2, ∗7
ActCCBD, ActMLCCBD	○∗2, ∗7
ActAnUBD, ActMLAnUBD	○∗3
ActLLT, ActMLLLT	○
ActQCPUQBus, ActMLQCPUQBus	○
ActA6TEL, ActQ6TEL, ActFXCPUTEL ActAJ71QC24TEL, ActQ71C24TEL	○
ActGOT, ActMLGOT	×
ActSupport, ActMLSupport	×

○: Usable ×: Unusable

∗1: An error is returned when remote operation is performed for the own station.
∗2: An error is returned when own board access is made.
∗3: When access to the QnACPU is made via the MELSECNET/10 or MELSECNET(II), making PAUSE specification for the QnACPU results in an error.
∗4: An error is returned if PAUSE specification is made.
∗5: Depending on the communication path (Ethernet communication, MELSECNET/10 communication, etc.), there will be restrictions as placed on the corresponding communication path controls.
∗6: An error is returned if the CPU is other than FX_{1N}, FX_{1NC}, FX_{2N}, FX_{2NC}, FX_{3U} and FX_{3UC}.
∗7: An error is returned if access to the QSCPU is made.

(2) Feature

Performs remote operation of the PLC CPU.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.SetCpuStatus(lOperation)

Long	lRet	Returned value	Output
Long	lOperation	Remote RUN/STOP/PAUSE	Input

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.SetCpuStatus (lOperation)

Long	lRet	Returned value	Output
Long	lOperation	Remote RUN/STOP/PAUSE	Input

VBScript : varRet = object.SetCpuStatus(varOperation)

VARIANT	varRet	Returned value(LONG type)	Output
VARIANT	varOperation	Remote RUN/STOP/PAUSE (LONG type)	Input

Visual Basic® .NET : lRet = object.SetCpuStatus(lOperation)

Integer	lRet	Returned value	Output
Integer	lOperation	Remote RUN/STOP/PAUSE	Input

Visual C++® .NET : iRet = object.SetCpuStatus (iOperation)

int	iRet	Returned value	Output
int	iOperation	Remote RUN/STOP/PAUSE	Input

(4) Explanation

(a) The operation specified in lOperation (varOperation) is performed.
Specifying any value other than the following will result in an error.

Value	Operation
0	Remote RUN
1	Remote STOP
2	Remote PAUSE

(5) Returned value

Normal termination : 0 is returned.
Abnormal termination : A value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT
Since the FXCPU does not have the PAUSE switch as the PLC CPU, an error is returned if remote pause is specified in SetCpuStatus.

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4.2.15 EntryDeviceStatus (Device status monitor registration)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Registers devices whose statuses will be monitored.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.EntryDeviceStatus(szDeviceList, lSize, lMonitorCycle, lData(0))

Long	lRet	Returned value	Output
String	szDeviceList	Registered device name list	Input
Long	lSize	Number of registered device points	Input
Long	lMonitorCycle	Status monitor time interval	Input
Long	lData(n)	Registered device value list	Input

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.EntryDeviceStatus (szDeviceList, lSize, lMonitorCycle, ＊lplData)

Long	lRet	Returned value	Output
CString	szDeviceList	Registered device name list	Input
Long	lSize	Number of registered device points	Input
Long	lMonitorCycle	Status monitor time interval	Input
Long	＊lplData	Registered device value list	Input

VBScript: varRet = object.EntryDeviceStatus(varDeviceList, varSize, varMonitorCycle, varData)

VARIANT	varRet	Returned value(LONG type)	Output
VARIANT	varDeviceList	Registered device name list (BSTR type)	Input
VARIANT	varSize	Number of registered device points (LONG type)	Input
VARIANT	varMonitorCycle	Status monitor time interval (LONG type)	Input
VARIANT	varData	Registered device value list (LONG type)	Input

Visual Basic® .NET : lRet = object.EntryDeviceStatus(szDeviceList, lSize, lMonitorCycle, lData(0))

Integer	lRet	Returned value	Output
String	szDeviceList	Registered device name list	Input
Integer	lSize	Number of registered device points	Input
Integer	lMonitorCycle	Status moniter time interval	Input
Integer	lData(n)	Registered device value list	Input

Visual C++® .NET : iRet = object.EntryDeviceStatus(szDeviceList, iSize, iMonitorCycle, ＊iplData)

int	iRet	Returned value	Output
String	＊szDeviceList	Registered device name list	Input
int	iSize	Number of registered device points	Input
int	iMonitorCycle	Status moniter time interval	Input
int	＊iplData	Registered device value list	Input

(4) Explanation

(a) Check whether lSize (varSize) of the device group specified in szDeviceList (varDeviceList) is in the status specified in lData (lplData or varData).
Specify the check time in lMonitorCycle (varMonitorCycle).
When the status is established, the OnDeviceStatus function of the user application is executed.

(b) Using the line feed symbol, separate the devices in the character string specified in the device list.
The last device need not be followed by the line feed symbol.
(Example)
Visual Basic® , VBA, VBScript : "D0" & vbLf & "D1" & vbLf & "D2"
Visual C++® : D0\nD1\nD2

(c) The maximum number of device points that may be specified in lSize (varSize) is 20 points.

(d) In lMonitorCycle (varMonitorCycle), specify a value within the range 1 second to 1 hour (set between 1 to 3600 in seconds).
Specifying any other value outside the above range will result in an error.

(e) Store the registered device value list in lData (lplData or varData).

(5) Device specifying methods

Specify the devices in the following methods.

(Example 1) When devices are specified as follows (3 points)
When using Visual Basic® , VBA, VBScript : M0 & vbLf & D0 & vbLf & K8M0
When using Visual C++® : M0\nD0\nK8M0

2 Upper Bytes	2 Lower Bytes
＊1	M0
＊1	D0
M16 to M31＊2	M0 to M15＊2

(Example 2) When devices including CN200 and later of FXCPU are specified (3 points in all) ＊3
When using Visual Basic® , VBA, VBScript : D0 & vbLf & CN200 & vbLf & D1
When using Visual C++® : D0\nCN200\nD1

2 Upper Bytes	2 Lower Bytes
＊1	D0
H of CN200	L of CN200
＊1	D1

(Example 3) When devices including FD are specified (3 points in all)
When using Visual Basic® , VBA, VBScript : D0 & vbLf & FD0 & vbLf & D1
When using Visual C++® : D0\nFD0\nD1

2 Upper Bytes	2 Lower Bytes
＊1	D0
＊1	LL of FD0
＊1	D1

(Example 4) When 8-bit devices including EG have been specified (a total of 3 points)
The following example assumes that 8-bit devices (E0000, E0001 of SHARP PLC) have been assigned to EG0.
When using Visual Basic® , VBA, VBScript : D0 & vbLf & EG0 & vbLf & D1
When using Visual C++® : D0\nEG0\nD1

2 Upper Bytes	2 Lower Bytes
∗1	D0
∗1	EG0 (E0001) (E0000)
∗1	D1

∗1: Not used. (0 is stored.)
∗2: Lower bits are stored in device number order.
∗3: For CN200 or later of FXCPU, 2 words are read from 1 point by random read.

(6) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

(7) Instructions for checking the word device status

When checking the word device status for a negative value of -1 to -32768 (FFFFH to 8000H), set the monitor device value of EntryDeviceStatus to any of 65535 to 32768 (0000FFFFH to 00008000H) where "0"s are stored in the upper 2 bytes.
While the word device of the PLC CPU is of WORD type, the monitor device value of EntryDeviceStatus is of LONG type. Therefore, when the current value of the PLC CPU is compared with the monitor device value of EntryDeviceStatus, they do not become the same value and the above setting is required. (When a bit device or double word device is used, this instruction does not apply.)
For the programming example on this instruction, refer to "Appendix 2 Programming Example for Checking the Word Device Status".

(Example) When checking the D0 status for "-10"
As the monitor device value, set the value "65526 (0000FFF6H)" where "0"s are stored in the upper 2 bytes of "-10 (FFFFFFF6H)".

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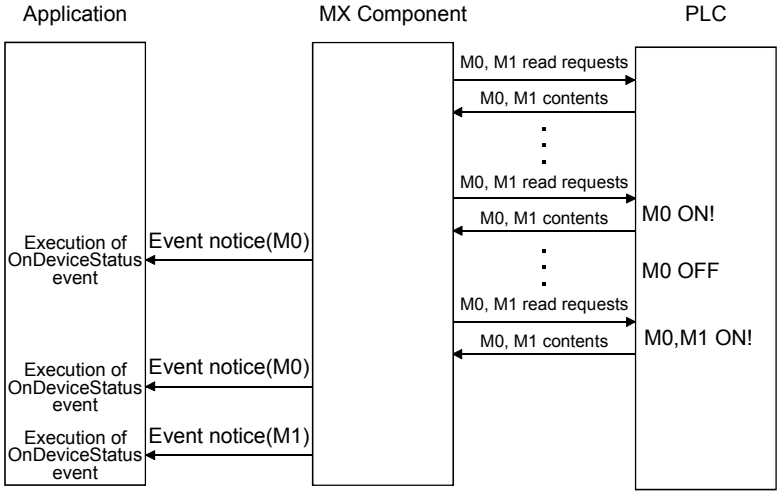
POINT

(1) Device status monitoring may not be performed at the specified status monitor time intervals depending on such conditions as the personal computer performance, currently executed application load, and time required for communication with the PLC.
Simultaneous use of any other ACT control function would also be the cause of disabling device status monitoring at the specified status monitor time intervals.

(2) For lData (lplData or lpvarData), prepare a memory area having the number of points specified in lSize (varSize).
If no memory area is available, a serious phenomenon such as an application error may occur.

(3) Execution of EntryDeviceStatus during status monitoring will result in an error.
When changing any status monitor condition, execute FreeDeviceStatus and then execute EntryDeviceStatus.

(4) If the statuses of multiple devices change at the same time, the OnDeviceStatus event is executed every time the status changes.
(Example: When M0 is monitored)



(5) With this function, the ACT control performs device random read periodically and confirms that the status has been established.
Therefore, this function is not designed for the PLC CPU to notify MX Component that the device status has been established.
Hence, depending on the specified status monitor time interval, the ACT control may not be able to confirm that the PLC CPU device status has been established.

4.2.16 FreeDeviceStatus (Device status monitor deregistration)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Deregisters the devices that have been registered in EntryDeviceStatus to monitor statuses.

(3) Format

Visual Basic® 6.0, Visual C++® 6.0, Visual C++® .NET(MFC),
VBA : lRet = object.FreeDeviceStatus()

Long	lRet	Returned value	Output

VBScript : varRet = object.FreeDeviceStatus()

VARIANT	varRet	Returned value (LONG type)	Output

Visual Basic® .NET : IRet = object.FreeDeviceStatus()

Integer	IRet	Returned value	Output

Visual C++® .NET : iRet = object. FreeDeviceStatus()

int	iRet	Returned value	Output

(4) Explanation

The devices that have been set by the EntryDeviceStatus function to monitor statuses are deregistered.

(5) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

4.2.17 OnDeviceStatus (Announces event)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Gives event notice when the device condition registered with the EntryDeviceStatus function holds.

(3) Format

Visual Basic® 6.0,VBA : object.OnDeviceStatus(szDevice, lData, lReturnCode)

String	szDevice	Name of device whose condition has held	Input
Long	lData	Value of device whose condition has held	Input
Long	lReturnCode	Returned value of condition check processing	Input

Visual C++® 6.0, Visual C++® .NET(MFC) : object.OnDeviceStatus(＊szDevice, lData, lReturnCode)

LPCTSTR	＊szDevice	Name of device whose condition has held	Input
Long	lData	Value of device whose condition has held	Input
Long	lReturnCode	Returned value of condition check processing	Input

VBScript : object.OnDeviceStatus(varDevice, varData, varReturnCode)

VARIANT	varDevice	Name of device whose condition has held(BSTR type)	Input
VARIANT	varData	Value of device whose condition has held(LONG type)	Input
VARIANT	varReturnCode	Returned value of condition check processing(LONG type)	Input

Visual Basic® .NET : Private Sub AxActEasyIF1_OnDeviceStatus(ByVal sender As System.Object, ByVal e As AxACTMULTILib._IActEasyIFEvents_OnDeviceStatusEvent)

ByVal sender As System.Object Event occurrence source Input

ByVal e As AxACTMULTILib._IActEasyIFEvents_OnDeviceStatusEvent

OnDeviceStatus Event data Input

The data e members of the OnDeviceStatus event are as follows.

e.szDevice	Name of device whose condition has held
e.lReturnCode	Value of device whose condition has held
e.lData	Returned value of condition check processing

Visual C++® .NET : private: System::Void axActEasyIF1_OnDeviceStatus (System::Object ＊ sender, AxInterop::ACTMULTILib::_IActEasyIFEvents_OnDeviceStatusEvent ＊ e)

System::Object ＊ sender Event occurrence source Input

AxInterop::ACTMULTILib::_IActEasyIFEvents_OnDeviceStatusEvent ＊ e

OnDeviceStatus Event data Input

The data e members of the OnDeviceStatus event are as follows.

e->szDevice	Name of device whose condition has held
e->lReturnCode	Value of device whose condition has held
e->lData	Returned value of condition check processing

(4) Explanation

(a) The application is notified of an event when the device condition registered with the EntryDeviceStatus function holds.
Placing this function in the user application allows the application to receive the event when the registered device condition holds.

(b) The device value registered to EntryDeviceStatus enters lData (varData).
(Example) When the word device is checked for the value "-1"
Set 65535 (0000FFFFH) in EntryDeviceStatus as a registered device value.
When the value of the target word device of the PLC CPU becomes "-1 (FFFFH), OnDeviceStatus is executed and (0000FFFFH) enters lData (varData).

(5) Returned value

None

POINT

- When the following setting has been made in the user application, the event of OnDeviceStatus does not occur if the condition of the device registered to the EntryDeviceStatus function is established.
Note that when the user application is put in an event occurrence waiting state, control will not return to the ACT control and device management processing will stop until the following setting is terminated.
(1) User application created using Visual Basic® or VBA (Excel)
(a) The message box is displayed in the user application.
(b) The InputBox/OutputBox is displayed in the user application.
(2) User application created using Visual Basic® , Visual C++® , VBA (Excel Access) or VBScript
(a) The Sleep processing, WaitForSingleObject function, or similar standby function is used in the user application.
- For how to install Reference, refer to the sample programs for Reference of VB .NET/VC .NET (Section 5.6, Section 5.7).

4.2.18 ReadDeviceBlock2 (Device batch-read)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Batch-reads 2-byte data from devices.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.ReadDeviceBlock2(szDevice, lSize, iData(0))

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Long	lSize	Number of read points	Input
Integer	iData(n)	Read device values	Output

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.ReadDeviceBlock2 (szDevice, lSize, ＊lpsData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Long	lSize	Number of read points	Input
Short	＊lpsData	Read device values	Output

VBScript : varRet = object.ReadDeviceBlock2(varDevice, varSize, lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name(character string type)	Input
VARIANT	varSize	Number of read points(LONG type)	Input
VARIANT	lpvarData	Read device values (SHORT type)	Output

Visual Basic® .NET : lRet = object.ReadDeviceBlock2(szDevice, lSize, sData(0))

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	lSize	Number of read points	Input
short	sData(n)	Read device values	Output

Visual C++® .NET : iRet = object.ReadDeviceBlock2(＊szDevice, iSize, ＊lpsData)

int	iRet	Returned value	Output
String	＊szDevice	Device name	Input
int	iSize	Number of read points	Input
short	＊lpsData	Read device values	Output

(4) Explanation

(a) Batch-reads lSize (varSize) of device values as SHORT type data from the devices, starting from the one specified in szDevice (varDevice).

(b) The read device values are stored in iData (lpsData or lpvarData).

(c) Reserve an array of lSize (varSize) or more for iData (lpsData or lpvarData).

(5) Device specifying methods

Specify the devices in the following methods.

<When bit device is specified>
(Example) Data are read from 3 points (3 words) on a 16 point basis, starting from M0.

2 Bytes
M0 to M15＊1
M16 to M31＊1
M32 to M47＊1

<When word device is specified>
(Example) 3 points from D0

2 Bytes
D0
D1
D2

<When CN200 and later of FXCPU are specified>
(Example) 6 points from CN200 ＊2:

2 Bytes
L of CN200 (2 Lower Bytes)
H of CN200 (2 Upper Bytes)
L of CN201 (2 Lower Bytes)
H of CN201(2 Upper Bytes)
L of CN202 (2 Lower Bytes)
H of CN202(2 Upper Bytes)

<When FD device is specified (4-word device)>
(Example) 6 points from FD0

2 Bytes
LL of FD0
LH of FD0
HL of FD0
HH of FD0
LL of FD1
LH of FD1

<8-bit devices assigned to gateway devices>
(Example) When 8-bit devices (E0000 to E0007 of SHARP PLC) have been assigned to 4 points, starting from EG0 (EG0 - EG3).

2 Bytes	
EG0	
(E0001)	(E0000)
EG1	
(E0003)	(E0002)
EG2	
(E0005)	(E0004)
EG3	
(E0007)	(E0006)

＊1: Lower bits are stored in device number order.
＊2: For CN200 or later of FXCPU, 2 words are read from 2 points. Read from 1 point will result in an error.

(6) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

(1) The maximum number of read points that may be specified in lSize(varSize) should satisfy the following range.
Read starting device number + number of read points ≤ last device number
(2) When the bit device is specified, a multiple of 16 may be specified as the device number.
(3) For iData (lpsData or lpvarData), prepare a memory area having the number of points specified in lSize (varSize).
If there is no memory area, a critical phenomenon such as an application error may occur.

4.2.19 WriteDeviceBlock2 (Device batch-write)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Batch-writes 2-byte data to devices.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.WriteDeviceBlock2(szDevice, lSize, iData(0))

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Long	lSize	Number of write points	Input
Integer	iData(n)	Device values to be written	Input

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.WriteDeviceBlock2 (szDevice, lSize, ∗lpsData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Long	lSize	Number of write points	Input
Short	∗lpsData	Device values to be written	Input

VBScript : varRet = object.WriteDeviceBlock2(varDevice, varSize, varData)

VARIANT	varRet	Returned value(LONG type)	Output
VARIANT	varDevice	Device name(character string type)	Input
VARIANT	varSize	Number of write points(LONG type)	Input
VARIANT	varData	Device values to be written (SHORT type)	Input

Visual Basic® .NET : IRet = object.WriteDeviceBlock2(szDevice, ISize, sData(0))

Integer	IRet	Returned value	Output
String	szDevice	Device name	Input
Integer	ISize	Number of write points	Input
short	sData(n)	Device values to be written	Input

Visual C++® .NET : iRet = object.WriteDeviceBlock2(∗szDevice, iSize, ∗lpsData)

int	iRet	Returned value	Output
String	∗szDevice	Device name	Input
int	iSize	Number of write points	Input
short	∗lpsData	Device values to be written	Input

(4) Explanation

(a) Batch-writes lSize (varSize) of device values to the devices, starting from the one specified in szDevice (varDevice).

(b) Store the device values to be written in iData (lpsData or varData).

(c) Reserve an array of lSize (varSize) or more for iData (lpsData or varData).

(5) Device specifying methods

Specify the devices in the following methods.

<When bit device is specified>
(Example) Data are written to 3 points (3 words) on a 16 point basis, starting from M0.

2 Bytes
M0 to M15＊1
M16 to M31＊1
M32 to M47＊1

<When word device is specified>
(Example) 3 points from D0

2 Bytes
D0
D1
D2

<When CN200 and later of FXCPU are specified>
(Example) 6 points from CN200 ＊2

2 Bytes
L of CN200 (2 Lower Bytes)
H of CN200 (2 Upper Bytes)
L of CN201 (2 Lower Bytes)
H of CN201(2 Upper Bytes)
L of CN202 (2 Lower Bytes)
H of CN202(2 Upper Bytes)

<When FD device is specified (4-word device)>
(Example) 6 points from FD0

2 Bytes
LL of FD0
LH of FD0
HL of FD0
HH of FD0
LL of FD1
LH of FD1

<8-bit devices assigned to gateway devices>
(Example) When 8-bit devices (E0000 to E0007 of SHARP PLC) have been assigned to 4 points, starting from EG0 (EG0 - EG3).

2 Bytes	
EG0	
(E0001)	(E0000)
EG1	
(E0003)	(E0002)
EG2	
(E0005)	(E0004)
EG3	
(E0007)	(E0006)

＊1: Lower bits are stored in device number order.
＊2: For CN200 or later of FXCPU, 2 words are written from 2 points. Write from 1 point will result in an error.

(6) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

(1) The maximum number of write points that may be specified in lSize(varSize) should satisfy the following range.
Write starting device number + number of write points ≤ last device number
(2) When the bit device is specified, a multiple of 16 may be specified as the device number.
(3) For iData (lpsData or varData), prepare a memory area having the number of points specified in lSize (varSize).
If there is no memory area, a critical phenomenon such as an application error may occur.

4.2.20 ReadDeviceRandom2 (Device random-read)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Randomly reads 2-byte data from devices.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.ReadDeviceRandom2(szDeviceList, lSize, iData(0))

Long	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Long	lSize	Number of read points	Input
Integer	iData(n)	Read device values	Output

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.ReadDeviceRandom2 (szDeviceList, lSize, ∗lpsData)

Long	lRet	Returned value	Output
CString	szDeviceList	Device name	Input
Long	lSize	Number of read points	Input
Short	∗lpsData	Read device values	Output

VBScript : varRet = object.ReadDeviceRandom2(varDeviceList, varSize, lpvarData)

VARIANT	varRet	Returned value(LONG type)	Output
VARIANT	varDeviceList	Device name(character string type)	Input
VARIANT	varSize	Number of read points(LONG type)	Input
VARIANT	lpvarData	Read device values (SHORT type)	Output

Visual Basic® .NET : lRet = object.ReadDeviceRandom2(szDeviceList, lSize, sData(0))

Integer	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Integer	lSize	Number of read points	Input
short	sData(n)	Read device values	Output

Visual C++® .NET : iRet = object.ReadDeviceRandom2(∗szDeviceList, iSize, ∗lpsData)

int	iRet	Returned value	Output
String	∗szDeviceList	Device name	Input
int	iSize	Number of read points	Input
short	∗lpsData	Read device values	Output

(4) Explanation

(a) Randomly reads only lSize (varSize) of device values from the device group specified in szDeviceList (varDeviceList).

(b) The read device values are stored in iData (lpsData or lpvarData).

(c) Using the line feed symbol, separate the devices in the character string specified in the device list.
The last device need not be followed by the line feed symbol.
(Example)
Visual Basic® , VBA, VBScript : "D0" & vbLf & "D1" & vbLf & "D2"
Visual C++® : D0\nD1\nD2

(d) Reserve an array of lSize (varSize) or more for iData (lpsData or lpvarData).

(5) Device specifying methods

Specify the devices in the following methods.

(Example 1) When devices are specified as follows (3 points)

When using Visual Basic® , VBA, VBScript : M0 & vbLf & D0 & vbLf & K8M0

When using Visual C++® : M0\nD0\nK8M0

2 Bytes
M0＊1
D0
M0 to M15＊2

(Example 2) When devices including CN200 and later of FXCPU are specified (3 points in all) ＊3

When using Visual Basic® , VBA, VBScript : D0 & vbLf & CN200 & vbLf & D1

When using Visual C++® : D0\nCN200\nD1

2 Bytes
D0
L of CN200 (2 Lower Bytes)
D1

(Example 3) When devices including FD are specified (3 points in all)

When using Visual Basic® , VBA, VBScript : D0 & vbLf & FD0 & vbLf & D1

When using Visual C++® : D0\nFD0\nD1

2 Bytes
D0
LL of FD0 (2 Lower Bytes)
D1

(Example4) When 8-bit devices including EG have been specified (a total of 3 points)

The following example assumes that 8-bit devices (E0000, E0001 of SHARP PLC) have been assigned to EG0.

When using Visual Basic® , VBA, VBScript : D0 & vbLf & EG0 & vbLf & D1

When using Visual C++® : D0\nEG0\nD1

2 Bytes	
D0	
EG0	
(E0001)	(E0000)
D1	

＊1: The device from where data will be read is only one point of "M0", and "0" or "1" is stored as the device value.

＊2: Lower bits are stored in device number order.
Data are not read from the upper 2 bytes, M16 to M31.

＊3: For CN200 and later of the FXCPU, specifying 1 point for ReadDeviceRandom2 reads data from the L (lower 2 bytes) of the specified device.
Data are not read from the H (upper 2 bytes) of the specified device.

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(6) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

(1) The maximum number of read points that may be specified in lSize(varSize) is up to 0x7FFFFFFF points.
(2) For iData(lpsData or lpvarData), prepare a memory area having the number of points specified in lSize(varSize).
If there is no memory area, a critical phenomenon such as an application error may occur.
(3) When a double word device is specified, only the data of the lower 1 word (2 bytes) are stored in ReadDeviceRandom2. (An error will not occur.)
When reading data from a double word device, use ReadDeviceRandom or GetDevice.

4.2.21 WriteDeviceRandom2 (Device random-write)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Randomly writes 2-byte data to devices.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.WriteDeviceRandom2(szDeviceList, lSize, iData(0))

Long	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Long	lSize	Number of write points	Input
Integer	iData(n)	Device values to be written	Input

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.WriteDeviceRandom2 (szDeviceList, lSize, ∗lpsData)

Long	lRet	Returned value	Output
CString	szDeviceList	Device name	Input
Long	lSize	Number of write points	Input
Short	∗lpsData	Device values to be written	Input

VBScript : varRet = object.WriteDeviceRandom2(varDeviceList, varSize, varData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDeviceList	Device name (character string type)	Input
VARIANT	varSize	Number of write points (LONG type)	Input
VARIANT	varData	Device values to be written (SHORT type)	Input

Visual Basic® .NET : lRet = object.WriteDeviceRandom2(szDeviceList, lSize, sData(0))

Integer	lRet	Returned value	Output
String	szDeviceList	Device name	Input
Integer	lSize	Number of write points	Input
short	sData(n)	Device values to be written	Input

Visual C++® .NET : iRet = object.WriteDeviceRandom2(∗szDeviceList, iSize, ∗lpsData)

int	iRet	Returned value	Output
String	∗szDseviceList	Device name	Input
int	iSize	Number of write points	Input
short	∗lpsData	Device values to be written	Input

(4) Explanation

(a) Randomly writes only lSize (varSize) of device values to the device group specified in szDeviceList (varDeviceList).

(b) The read device values are stored in iData (lpsData or varData).

(c) Using the line feed symbol, separate the devices in the character string specified in the device list.
The last device need not be followed by the line feed symbol.
(Example)
Visual Basic® , VBA, VBScript : "D0" & vbLf & "D1" & vbLf & "D2"
Visual C++® : D0\nD1\nD2

(d) Reserve an array of lSize (varSize) or more for iData (lpsData or varData).

(5) Device specifying methods

Specify the devices in the following methods.

(Example 1) When devices are specified as follows (3 points)
When using Visual Basic® , VBA, VBScript : M0 & vbLf & D0 & vbLf & K8M0
When using Visual C++® : M0\nD0\nK8M0

2 Bytes
M0＊1
D0
M0 to M15＊2

(Example 2) When devices including CN200 and later of FXCPU are specified (3 points in all) ＊3
When using Visual Basic® , VBA, VBScript : D0 & vbLf & CN200 & vbLf & D1
When using Visual C++® : D0\nCN200\nD1

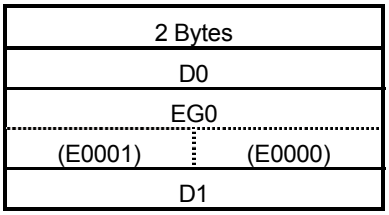
2 Bytes
D0
L of CN200 (2 Lower Bytes) ＊3
D1

(Example 3) When devices including FD are specified (3 points in all)
When using Visual Basic® , VBA, VBScript : D0 & vbLf & FD0 & vbLf & D1
When using Visual C++® : D0\nFD0\nD1

2 Bytes
D0
LL of FD0 (2 Lower Bytes)
D1

(Example4) When 8-bit devices including EG have been specified
(a total of 3 points)
The following example assumes that 8-bit devices (E0000, E0001 of SHARP PLC) have been assigned to EG0.

When using Visual Basic® , VBA, VBScript : D0 & vbLf & EG0 & vbLf & D1
When using Visual C++® : D0\nEG0\nD1



∗1: The device to where data will be written is only one point of "M0", and the lowest bit of the set 2-byte data is written as the device value.

∗2: Lower bits are stored in device number order.
"0"s are written to the upper 2 bytes, M16 to M31.

∗3: For CN200 and later of the FXCPU, specifying 1 point for WriteDeviceRandom2 writes data to the L (lower 2 bytes) of the specified device.
"0"s are written to the H (upper 2 bytes) of the specified device.

(6) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

(1) The maximum number of write points that may be specified in lSize(varSize) is up to 0x7FFFFFFF points.

(2) For iData(lpsData or varData), prepare a memory area having the number of points specified in lSize(varSize).
If there is no memory area, a critical phenomenon such as an application error may occur.

(3) When a double word device is specified, data are written to the data area of the lower 1 word (2 bytes) in WriteDeviceRandom2, and "0"s are written to the data area of the upper 1 word (2 bytes).
When writing data to a double word device, use WriteDeviceRandom or SetDevice.

4.2.22 SetDevice2 (Device data setting)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Sets 2-byte data to one device point.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.SetDevice2(szDevice, iData)

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	iData	Set data	Input

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.SetDevice2(szDevice, sData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Short	sData	Set data	Input

VBScript : varRet = object.SetDevice2(varDevice, varData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name (character string type)	Input
VARIANT	varData	Set data (SHORT type)	Input

Visual Basic® .NET : lRet = object.SetDevice2(szDevice, sData)

Integer	lRet	Returned value	Output
String	szDevice	Device name	Input
short	sData	Set data	Input

Visual C++® .NET : iRet = object.SetDevice2(∗szDevice, sData)

int	iRet	Returned value	Output
String	∗szDevice	Device name	Input
short	sData	Set data	Input

(4) Explanation

(a) The operation specified in iData(sData or varData) is performed for one point of device specified in szDevice(varDevice).

(b) When the bit device is specified, the least significant bit of the iData value (sData value or varData value) becomes valid.

(5) Device specifying methods

Specify the devices in the following methods.

<When bit device is specified>
(Example) M0

2 Bytes
M0＊1

<When word device is specified>
(Example) D0

2 Bytes
D0

<When double-word device is specified>
(Example) K8M0

2 Bytes
M0 to M15＊2

<When CN200 or later of FXCPU is specified>
(Example) CN200

2 Bytes
L of CN200 (2 Lower Bytes) ＊3

<When gateway device is specified>
(Example) When 8-bit devices (E0000, E0001 of SHARP PLC) have been assigned to EG0

2 Bytes	
EG0	
(E0001)	(E0000)

＊1: The device to where data will be written is only one point of "M0", and the lowest bit of the set 2-byte data is written as the device value.
＊2: Lower bits are stored in device number order.
"0"s are written to the upper 2 bytes, M16 to M31.
＊3: For CN200 and later of the FXCPU, specifying 1 point for SetDevice2 writes data to the L (lower 2 bytes) of the specified device.
"0"s are written to the H (upper 2 bytes) of the specified device.

(6) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

When a double word device is specified, data are written to the data area of the lower 1 word (2 bytes) in SetDevice2, and "0"s are written to the data area of the upper 1 word (2 bytes).
When writing data to a double word device, use WriteDeviceRandom or SetDevice.

4.2.23 GetDevice2 (Device data acquisition)

(1) Applicable ACT controls

This function is available for all ACT controls but the ActSupoort and ActMLSupport controls.

(2) Feature

Gets 2-byte data from one device point.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.GetDevice2(szDevice, iData)

Long	lRet	Returned value	Output
String	szDevice	Device name	Input
Integer	iData	Acquired data	Output

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object.GetDevice2(szDevice, ∗lpsData)

Long	lRet	Returned value	Output
CString	szDevice	Device name	Input
Short	∗lpsData	Acquired data	Output

VBScript : varRet = object.GetDevice2(varDevice, lpvarData)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varDevice	Device name (character string type)	Input
VARIANT	lpvarData	Acquired data (SHORT type)	Output

Visual Basic® .NET : IRet = object.GetDevice2(szDevice, sData)

Integer	IRet	Returned value	Output
String	szDevice	Device name	Input
short	sData	Acquired data	Output

Visual C++® .NET : iRet = object.GetDevice2(∗szDevice, ∗spsData)

int	iRet	Returned value	Output
String	∗szDevice	Device name	Input
short	∗spsData	Acquired data	Output

(4) Explanation

(a) Stores the data of the one device point specified in szDevice (varDevice) into iData (lpsData or lpvarData).

(5) Device specifying methods

Specify the devices in the following methods.

<When bit device is specified>
(Example) M0

2 Bytes
M0＊1

<When word device is specified>
(Example) D0

2 Bytes
D0

<When double-word device is specified>
(Example) K8M0

2 Bytes
M0 to M15＊2

<When CN200 or later of FXCPU is specified>
(Example) CN200

2 Bytes
L of CN200＊3

<When gateway device is specified>
(Example) When 8-bit devices (E0000, E0001 of SHARP PLC) have been assigned to EG0

2 Bytes	
EG0	
(E0001)	(E0000)

＊1: The device from where data will be read is only one point of "M0", and "0" or "1" is stored as the device value.
＊2: Lower bits are stored in device number order.
Data are not read from the upper 2 bytes, M16 to M31.
＊3: For CN200 and later of the FXCPU, specifying 1 point for GetDevice2 reads data from the L (lower 2 bytes) of the specified device.
Data are not read from the H (upper 2 bytes) of the specified device.

(6) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

POINT

When a double word device is specified, only the data of the lower 1 word (2 bytes) are stored in GetDevice2. (An error will not occur.)
When reading data from a double word device, use ReadDeviceRandom or GetDevice.

4.2.24 Connect (Telephone line connection)

(1) Applicable ACT controls

This function is available for the ActEasyIF, ActA6TEL, ActQ6TEL, ActFXCPUTEL, ActAJ71QC24TEL and ActQJ71C24TEL controls.

(2) Feature

Connects the telephone line.

(3) Format

Visual Basic® 6.0, Visual C++® 6.0, Visual C++® .NET(MFC),
VBA : lRet = object.Connect()

Long	lRet	Returned value	Output

Visual Basic® .NET : IRet = object.Connect()

Integer	IRet	Returned value	Output

Visual C++® .NET : iRet = object.Connect()

int	iRet	Returned value	Output

(4) Explanation

(a) Connects the telephone line on the basis of the property settings of the modem communication control.

(b) For the ActQJ71C24TEL control, the telephone line is connected in the connection system that has been set in the ActConnectWay property.
When Auto line connect (callback number specification), callback connect (number specification) or callback request (number specification) has been set in the ActConnectWay property, an error will occur if a number is not set in the ActCallbackNumber property.

(5) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

(6) Instructions for execution of Connect

(a) Always connect the telephone line before execution of Open.

(b) When disconnecting the telephone line, execute Disconnect.
During Connect, the telephone line remains connected if Open and Close are repeated many times.

(c) If the telephone line is disconnected in the Open status for some reason, always execute Close before reconnecting the telephone line.

(7) Instructions for use of multiple telephone line connection objects

(a) When the control types, port numbers and telephone numbers of the controls are different

When the control types, port numbers and telephone numbers set to multiple controls differ from each other, an error (error code: 0xF1000016) will occur if Connect is executed by the control with port number and telephone number different from those of the control that executed Connect first.

(b) When the port numbers and telephone numbers of the controls are the same

When the control types, port numbers and telephone numbers set to multiple controls are the same, the termination status changes depending on the connection system of the callback function.

The following table indicates the relations between the callback function connection system and the termination status.

Connection System of Control That has Executed Connect First	Connection System of Control That Executes Connect Second or Later			
	Auto line connect Auto line connect (Callback fixation) Auto line connect (Callback number specification)	Callback connect (Fixation) Callback connect (Number specification)	Callback request (Fixation) Callback request (Number specification)	Callback reception waiting
Auto line connect Auto line connect (Callback fixation) Auto line connect (Callback number specification)	○	○	×	×
Callback connect (Fixation) Callback connect (Number specification)	○	○	×	×
Callback request (Fixation) Callback request (Number specification)	○	○	○	○
Callback reception waiting	×	×	×	○

○ : Normal termination × : Abnormal termination (Error occurrence)

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4.2.25 Disconnect (Disconnects telephone line)

(1) Applicable ACT controls

This function is available for the ActEasyIF, ActA6TEL, ActQ6TEL, ActFXCPUTEL, ActAJ71QC24TEL and ActQJ71C24TEL controls.

(2) Feature

Disconnects the telephone line.

(3) Format

Visual Basic® 6.0, Visual C++® 6.0, Visual C++® .NET(MFC),
VBA : lRet = object.Disconnect()

Long	lRet	Returned value	Output

Visual Basic® .NET : IRet = object.Disconnect()

Integer	IRet	Returned value	Output

Visual C++® .NET : iRet = object.Disconnect()

int	iRet	Returned value	Output

(4) Explanation

(a) Disconnects the telephone line that was connected using the Connect function.

(5) Returned value

Normal termination : 0 is returned.
Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

(6) Instructions for Disconnect execution

(a) When executing Disconnect during Open, execute Close before executing Disconnect.

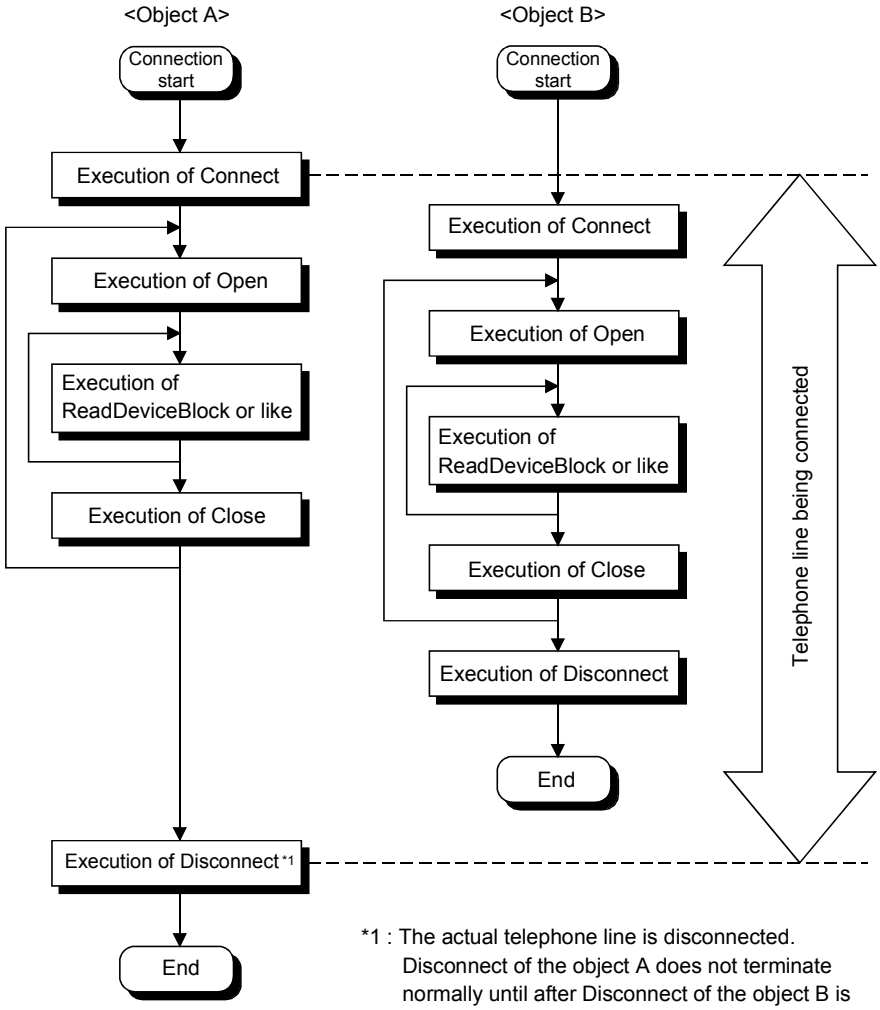
(b) If the telephone line is disconnected in the Open status for some reason, always execute Close before reconnecting the telephone line.

(c) When multiple telephone line connection objects are used, Disconnect should be executed by the object that executed Connect first after another object has executed Disconnect.

When multiple telephone line connection objects are used, the telephone line is not disconnected if the object that executed Connect first does not execute Disconnect.

The following example gives how to use multiple objects together.

<Example> When using two controls together
(Including the case where the objects A and B are operated by different applications)



*1 : The actual telephone line is disconnected. Disconnect of the object A does not terminate normally until after Disconnect of the object B is executed.

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4.2.26 GetErrorMessage (Gets error message)

(1) Applicable ACT controls

This function is available for the ActSupport and ActMLSupport controls.

(2) Feature

Gets the error definition and corrective action corresponding to the error code.

(3) Format

Visual Basic® 6.0, VBA : lRet = object.GetErrorMessage(lErrorCode, szErrorMessage)

Long	lRet	Returned value	Output
String	lErrorCode	Error code	Input
String	szErrorMessage	Error message	Output

Visual C++® 6.0, Visual C++® .NET(MFC) : lRet = object. GetErrorMessage (lErrorCode, ＊lpszErrorMessage)

Long	lRet	Returned value	Output
Long	lErrorCode	Error code	Input
BSTR	＊lpszErrorMessage	Error message	Output

VBScript : varRet = object. GetErrorMessage (varErrorCode, lpvarErrorMessage)

VARIANT	varRet	Returned value (LONG type)	Output
VARIANT	varErrorCode	Error code (LONG type)	Input
VARIANT	lpvarErrorMessage	Error message (character string type)	Output

Visual Basic® .NET : lRet = object.GetErrorMessage(lErrorCode, szErrorMessage)

Integer	lRet	Returned value	Output
Integer	lErrorCode	Error code	Input
String	szErrorMessage	Error message	Output

Visual C++® .NET : iRet = object.GetErrorMessage(iErrorCode, ＊＊lpsErrorMessage)

int	iRet	Returned value	Output
int	iErrorCode	Error code	Input
String	＊＊lpsErrorMessage	Error message	Output

(4) Explanation

(a) Reads the error definition and corrective action of the error code specified in lErrorCode (varErrorCode).

(b) The read error definition and corrective action are stored into szErrorMessage (lpszErrorMessage or lpvarErrorMessage).

(5) Returned value

Normal termination : 0 is returned.

Abnormal termination : Any value other than 0 is returned.
(Refer to Chapter 6 ERROR CODES.)

4.3 Details of the Functions (Custom Interface)

This section explains the details of the functions.
The details of the functions in this section assume that the custom interface is used.
The custom interface may be used on only Visual C++® .
For the dispatch interface, refer to "Section 4.2 Details of the Functions (Dispatch Interface)".
This section describes only the formats of the functions.
For details of other than the formats, refer to "Section 4.2 Details of the Functions (Dispatch Interface)".

4.3.1 Open (Communication line opening)

hResult = object.Open(∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.2 Close (Communication line closing)

hResult = object.Close(∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.3 ReadDeviceBlock (Device batch-read)

hResult = object.ReadDeviceBlock(szDevice, lSize, ∗lplData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
LONG	lSize	Number of read points	Input
LONG	∗lplData	Read device values	Output
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.4 WriteDeviceBlock (Device batch-write)

hResult = object.WriteDeviceBlock(szDevice, lSize, ∗lplData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
LONG	lSize	Number of write points	Input
LONG	∗lplData	Written device values	Input
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.5 ReadDeviceRandom (Device random-read)

hResult = object.ReadDeviceBlock(szDeviceList, lSize, ∗lplData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDeviceList	Device name	Input
LONG	lSize	Number of read points	Input
LONG	∗lplData	Read device values	Output
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.6 WriteDeviceRandom (Device random-write)

hResult = object.WriteDeviceRandom(szDeviceList, lSize, ∗lplData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDeviceList	Device name	Input
LONG	lSize	Number of write points	Input
LONG	∗lplData	Written device values	Input
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.7 SetDevice (Device data setting)

hResult = object.SetDevice(szDevice, lData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
LONG	lData	Set data	Input
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.8 GetDevice (Device data acquisition)

hResult = object.GetDevice(szDevice, ∗lplData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
LONG	∗lplData	Set data	Output
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.9 ReadBuffer (Buffer memory read)

hResult = object.ReadBuffer(lStartIO, lAddress, lReadSize,
∗lpsData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	lStartIO	First I/O number of module from where values will be read	Input
LONG	lAddress	Buffer memory address	Input
LONG	lReadSize	Read size	Input
SHORT	∗lpsData	Values read from buffer memory	Output
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.10 WriteBuffer (Buffer memory write)

hResult = object.WriteBuffer(lStartIO, lAddress, lWriteSize,
∗lpsData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	lStartIO	First I/O number of module to where values will be written	Input
LONG	lAddress	Buffer memory address	Input
LONG	lWriteSize	Write size	Input
SHORT	∗lpsData	Values written to buffer memory	Input
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.11 GetClockDSata (Clock data read)

hResult = object.GetClockData(∗lpsYear, ∗lpsMonth, ∗lpsDay,
∗lpsDayOfWeek, ∗lpsHour, ∗lpsMinute, ∗lpsSecond, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
SHORT	∗lpsYear	Read year value	Output
SHORT	∗lpsMonth	Read month value	Output
SHORT	∗lpsDay	Read day value	Output
SHORT	∗lpsDayOfWeek	Read day-of-week value	Output
SHORT	∗lpsHour	Read hour value	Output
SHORT	∗lpsMinute	Read minute value	Output
SHORT	∗lpsSecond	Read second value	Output
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.12 SetClockData (Clock data write)

hResult = object.SetClockData(sYear, sMonth, sDay, sDayOfWeek,
sHour, sMinute, sSecond, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
SHORT	sYear	Year value to be written	Input
SHORT	sMonth	Month value to be written	Input
SHORT	sDay	Day value to be written	Input
SHORT	sDayOfWeek	Day-of-week value to be written	Input
SHORT	sHour	Hour value to be written	Input
SHORT	sMinute	Minute value to be written	Input
SHORT	sSecond	Second value to be written	Input
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.13 GetCpuType (PLC CPU type read)

hResult = object.GetDevice(∗szDeviceList, ∗lplData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	∗szCpuName	PLC CPU type character string	Output
LONG	∗lplCpuType	PLC CPU type code	Output
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.14 SetCpuStatus (Remote control)

hResult = object.SetCpuStatus(lOperation, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	lOperation	Remote RUN/STOP/PAUSE	Input
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.15 EntryDeviceStatus (Device status monitor registration)

hResult = object.EntryDeviceStatus(szDeviceList, lSize, lMonitorCycle, *lplData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDeviceList	Registered device name list	Input
LONG	lSize	Number of registered device points	Input
LONG	lMonitorCycle	Status monitor time interval	Input
LONG	*lplData	Registered device value list	Input
LONG	*lplRetCode	Returned value of communication function	Output

4.3.16 FreeDeviceStatus (Device status monitor deregistration)

hResult = object.FreeDeviceStatus(*lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	*lplRetCode	Returned value of communication function	Output

4.3.17 OnDeviceStatus (Announces event)

hResult = object. OnDeviceStatus(szDevice, lData, lReturnCode, *lplRetCode)

LPCTSTR	szDevice	Name of device whose condition has held	Input
LONG	lData	Value of device whose condition has held	Input
LONG	lReturnCode	Returned value of condition check processing	Input
LONG	*lplRetCode	Returned value of communication function	Output

4.3.18 ReadDeviceBlock2 (Device batch-read)

hResult = object.ReadDeviceBlock2(szDevice, lSize, *lpsData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
LONG	lSize	Number of read points	Input
SHORT	*lpsData	Read device values	Output
LONG	*lplRetCode	Returned value of communication function	Output

4.3.19 WriteDeviceBlock2 (Device batch-write)

hResult = object.WriteDeviceBlock2(szDevice, lSize, *lpsData, *lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
LONG	lSize	Number of write points	Input
SHORT	*lpsData	Written device values	Input
LONG	*lplRetCode	Returned value of communication function	Output

4.3.20 ReadDeviceRandom2 (Device random-read)

hResult = object.ReadDeviceRandom2(szDeviceList, lSize, ∗lpsData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDeviceList	Device name	Input
LONG	lSize	Number of read points	Input
SHORT	∗lpsData	Read device values	Output
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.21 WriteDeviceRandom2 (Device random-write)

hResult = object.WriteDeviceRandom2(szDeviceList, lSize, ∗lpsData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDeviceList	Device name	Input
LONG	lSize	Number of write points	Input
SHORT	∗lpsData	Written device values	Input
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.22 SetDevice2 (Device data setting)

hResult = object.SetDevice2(szDevice, sData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
SHORT	sData	Set data	Input
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.23 GetDevice2 (Device data acquisition)

hResult = object.GetDevice2(szDevice, ∗lpsData, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
BSTR	szDevice	Device name	Input
SHORT	∗lpsData	Acquired data	Output
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.24 Connect (Telephone line connection)

hResult = object.Connect(∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.25 Disconnect (Disconnects telephone line)

hResult = object.Disconnect(∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	∗lplRetCode	Returned value of communication function	Output

4.3.26 GetErrorMessage (Gets error message)

hResult = object.GetErrorMessage(lErrorCode, ∗lpszErrorMessage, ∗lplRetCode)

HRESULT	hResult	Returned value of COM	Output
LONG	lErrorCode	Error code	Input
BSTR	∗lpszErrorMessage	Error message	Output
LONG	∗lplRetCode	Returned value of communication function	Output

5 SAMPLE PROGRAMS

This chapter describes the sample program registered at installation of MX Component.

(1) Sample programs, test programs and sample sequence programs

(a) Sample programs, test programs

The sample programs are attached for your reference when creating a user program.

The test programs are attached for conducting communication tests.

Please use these programs on the customer's own responsibility.

(b) Sample sequence programs

The sample sequence programs attached to MX Component must be modified depending on the system configuration and parameter settings. Modify them to be best for the system.

Please note that it is user's responsibility to use the same sequence programs.

(2) Sample program, test program, sample sequence program list

The following table gives a sample program list that is registered to [User specified folder] - [Act] - [Sample] when MX Component Version 3 is installed.

Folder name		Sample Program Details	Compatible Language	Reference Section
AccessVBA	Sample	Sample program for ActEasyIF control	VBA (Access)	5.3.3
	TestPro	Test program compatible with each control		＊1
ExelVBA	Sample	Sample program for ActEasyIF control	VBA (Excel)	5.3.1
	Sample_DeviceRW	Sample program using the ActEasyIF control to read/write values from/to D0 - D9		5.3.2
	TestPro	Test program compatible with each control		＊1
Vb	ModemSample	Sample program for modem communication	Visual Basic®	5.1.2
	Sample	Sample program for ActEasyIF control and ActACPU control		5.1.1
	Sample_TypeConv	Type conversion sample program		5.1.3
VBScript	SampleASP	Sample program for ActMLEasyIF control	HTML (ASP function)	5.5
	SampleHTML	Sample program for ActMLEasyIF control	HTML	5.4
	TestPro	Test program for all controls compatible with VBScript		＊1
Vc	CustomSample	Sample program for ActEasyIF control and ActAJ71QE71UDP control	Visual C++ (Custom interface)	5.2.2
	Sample	Sample program for ActEasyIF control and ActAJ71QE71UDP control	Visual C++ (Dispatch interface)	5.2.1
	Sample_Support	Sample program for troubleshooting function (ActSupport control)		5.2.3

＊1: Test program for operation checking.
Use it to check operation.

(To next page)

Folder name		Sample Program Details	Compatible Language	Reference Section
Vb.NET	Sample_TypeConv	Type conversion sample program	Visual Basic.NET	5.6.1
	Sample Sample_References	Read/Write sample program		5.6.2
Vc.NET	Sample Sample_References	Read/Write sample program	Visual C++.NET (Visual Studio® .NET 2003)	5.7.1
Vc.NET	Sample2005 Sample_References2005	Read/Write sample program	Visual C++.NET (Visual Studio® 2005)	5.9.1
GppW	AJ71QC24NTEL	Sample ladder for modem communication (QC24N)	Sequence program (GX Developer)	∗2
	Ccg4a	Sample ladder for CC-Link G4 (A mode) communication		
	E71_tcp	Sample ladder for Ethernet communication (E71 TCP/IP)		
	E71_udp	Sample ladder for Ethernet communication (E71 UDP/IP)		
	Fxcputel	Sample ladder for modem communication (FXCPU)		
	Qe71_tcp	Sample ladder for Ethernet communication (QE71 TCP/IP)		
	QJ71C24Callback	Sample ladder for modem communication (Q series-compatible C24) that uses setting 1 to specify the callback function		
	QJ71C24Callback_Number	Sample ladder for modem communication (Q series-compatible C24) that uses setting 3 to specify the callback function		
	QJ71C24TEL	Sample ladder for modem communication (Q series-compatible C24)		

∗2: Refer to the MX Component Version 3 Operating Manual.

5.1 Visual Basic® 6.0 Sample Program

This section explains the sample program for Visual Basic® 6.0 created using the Act controls.

5.1.1 Sample program for ActEasyIF control and ActACPU control

This sample program reads data from the PLC CPU and reads/writes device values using the ActEasyIF control and ActACPU control.

(1) Using method

Load the form and choose the control to be used.

Click the Open button to open the communication line.

When you selected the ActEasyIF control, type the logical number, which was specified in communication settings on the communication setting utility, in the "LogicalStationNumber" text box before clicking the Open button.

Click the Close button to close the communication line.

When you click the GetCpuType button, the type and type code of the PLC CPU to which the line is currently connected appear in the "Data" list box.

Typing the device names from where you want to read data and the number of points in the "DeviceName" and "DeviceSize" text boxes, respectively, and clicking the ReadDeviceRandom button displays the device data in the "Data" list box.

Typing the device names to where you want to write data and the number of points in the "DeviceName" and "DeviceSize" text boxes, respectively, and the device values to be written in the "DeviceData" text box and clicking the WriteDeviceRandom button writes the device values to the PLC CPU.

If an error occurs during execution, the error code appears in the "ReturnCode" text box.

If an error has occurred, refer to "6 ERROR CODES" and remove the error cause.

(2) Precautions for use of the sample program

(a) When using the ActEasyIF control, make communication settings on the communication setting utility before running this sample program.

(b) When the ActACPU control is used, this sample program is designed to use the PLC CPU as "A1N" and the COM port as "COM1" exclusively.

(c) When changing the control to be used, click the Close button to close the communication line once, then change the control, and click the Open button to reopen the communication line.

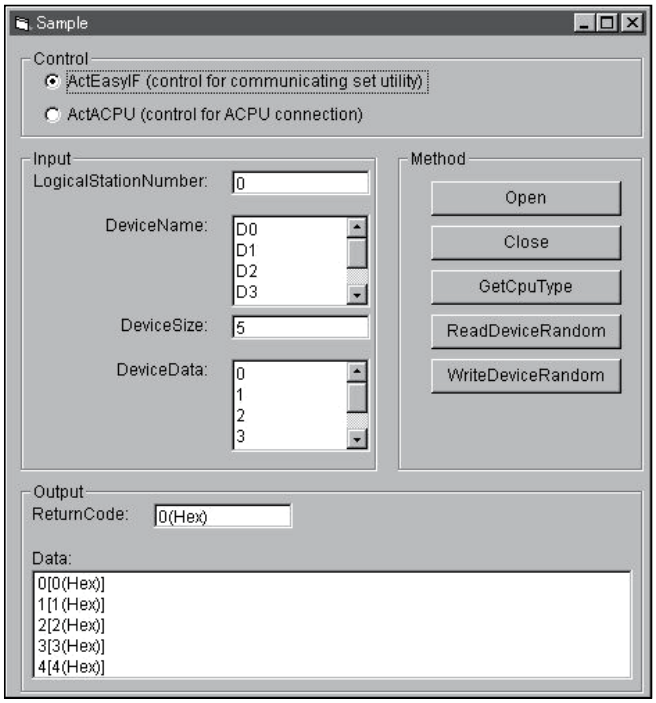
(3) Sample file list

By default, the sample program is installed in the following folders.

C:\MELSEC\Act\Sample\Vb\Sample.vbp	Project file
C:\MELSEC\Act\Sample\Vb\SampleForm.frm	Visual Basic Form file
C:\MELSEC\Act\Sample\Vb\SampleForm.frx	Visual Basic Form Binary file

(4) Screen

The sample program screen will be explained.



Item	Description
Control	Choose the control to be used.
LogicalStationNumber	Enter the logical station number that was specified in communication settings on the communication setting utility.
DeviceName	Enter the device names from/to where values will be read/written.
DeviceSize	Enter the number of points of the devices from/to where values will be read/written.
DiviceData	Enter the device values to be written.
Open	Used to open the communication line.
Close	Used to close the communication line.
GetCpuType	Used to read the PLC CPU type.
ReadDeviceRandom	Used to read the data of the devices entered in the "DeviceName" text box.
WriteDeviceRandom	Used to write the data of the devices entered in the "DeviceName" text box.
ReturnCode	Shows the result of executing the corresponding method.
Data	Shows the CPU type, CPU type code and read device values.

5.1.2 Sample program for modem communication

This sample program monitors the devices of the PLC CPU corresponding to the specified logical station number using the ActEasyIF control.

(1) Using method

Enter the value of the logical station number, to which modem communication settings have been made within the communication settings utility, into the "LogicalStationNumber" text box.
If the password has been set to the module to be connected, enter the password into the "Password" text box.
Enter the monitoring interval into the "MonitorInterval" text box.
Enter the device name to be monitored into the "DeviceName" text box, and the number of device points into the "Size" text box.
Clicking the MonitorStart button opens the communication line after connection of the telephone line and reads the device values at the intervals specified with the RedDeviceBlock function. (For the logical station number that does not need connection of the telephone line, only the communication line is opened and the telephone line is not connected.)
Clicking the MonitorStop button disconnects the telephone line after closing of the communication line.
If an error occurs during execution of this sample program, an error code appears in the "ReturnValue" text box.
If the error code is displayed in the "ReturnValue" text box, click the GetErrorMessage button to display the error definition and corrective action corresponding to the displayed error code.
If an error occurs, confirm the error definition and remove the error cause.

(2) Instructions for use of the sample program

(a) To use the ActEasyIF control, set the logical station number within the communication settings utility before execution of this sample program.
(b) When changing the logical station number, monitoring interval, device name and number of read points, click the MonitorStop button to close the communication line once, and click the MonitorStart button to resume communication.

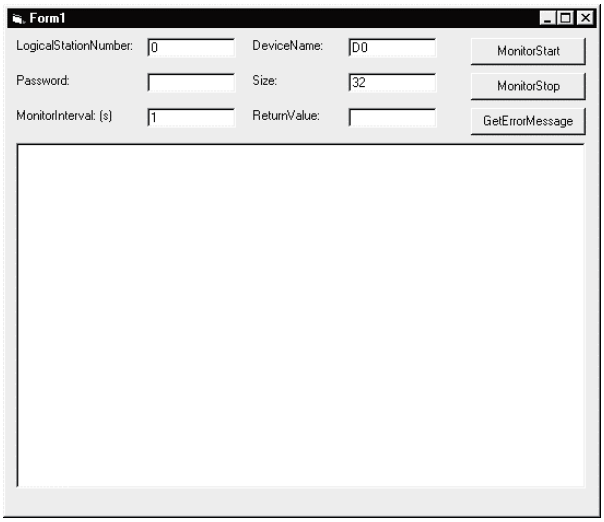
(3) Sample file list

The sample program is installed into the following folders at the default installation.

C:\MELSEC\Act\Sample\Vb\ModemSample\ModemSample.vbp project file
C: \MELSEC\Act\Sample\Vb\ModemSample\ModemSample.frm Visual Basic Form file
C: \MELSEC\Act\Sample\Vb\ModemSample\ModemSample.frx Visual Basic Form Binary file

(4) Screen

The sample program screen will be explained.



Item	Description
LogicalStationNumber	Enter the logical station number set in the communication settings utility.
Password	Enter the password when it is required.
MonitorInterval	Set the monitoring interval. (Unit: s)
DeviceName	Enter the device name to be monitored.
Size	Enter the number of read points.
ReturnValue	Displays the returned value of the executed method.
MonitorStart	Used to open the communication line and start monitoring after connection of the telephone line.
MonitorStop	Used to disconnect the telephone line and stop monitoring after closing of the communication line.
GetErrorMessage	Used to get and display the error definition and corrective action for the error code in "ReturnValue".

5.1.3 Type conversion sample program

This sample program reads/writes ASCII character string, 32-bit integer or real number data from/to the PLC CPU devices in the corresponding data format using the ActEasyIF control, and if an error occurs during execution, displays the error message using the ActSupport control.

(1) Using method

Load the form, type the logical number, which was specified in communication settings on the communication setting utility, in the "LogicalStationNumber" text box, and then click the [Open] button to open the communication line.

To write ASCII characters to the PLC CPU, type ASCII character data in the upper text box inside the "ASCII character" frame, and then click the [Write] button inside that frame. (Write is executed within the range D0 to D9, regardless of the number of typed characters. When the number of characters is insufficient, the blanks are filled with 0 (Hex).)

To read the ASCII characters, click the [Read] button in the "ASCII character" frame. Data from the PLC CPU is displayed in the lower text box inside that frame. (Read is executed within the range D0 to D9.)

To write a 32-bit integer to the PLC CPU, type 32-bit integer data in the upper text box inside the "32bit integer" frame, and then click the [Write] button inside that frame. (Write is executed within the range D10 to D11.)

To read the 32-bit integer, click the [Read] button in the "32bit integer" frame. Data from the PLC CPU is displayed in the lower text box inside that frame. (Read is executed within the range D10 to D11.)

To write a real number to the PLC CPU, type real number data in the upper text box inside the "Real number" frame, and then click the [Write] button inside that frame. (Write is executed within the range D12 to D13.)

To read the real number, click the [Read] button in the "Real number" frame. Data from the PLC CPU is displayed in the lower text box inside that frame. (Read is executed within the range D12 to D13.)

If an error occurs during execution, the error message and error code appear in the message box. If an error has occurred, refer to "6 ERROR CODES" and remove the error cause.

Click the [Close] button to close the communication line.

(2) Precautions for use of the sample program

(a) When using the ActEasyIF control, make communication settings on the communication setting utility before running this sample program.

(b) If an error occurs due to other than the ActEasyIF control (e.g. a character string or out-of-range value is typed as a 32-bit integer or real number), the corresponding error is displayed in the message box and then the program terminates.

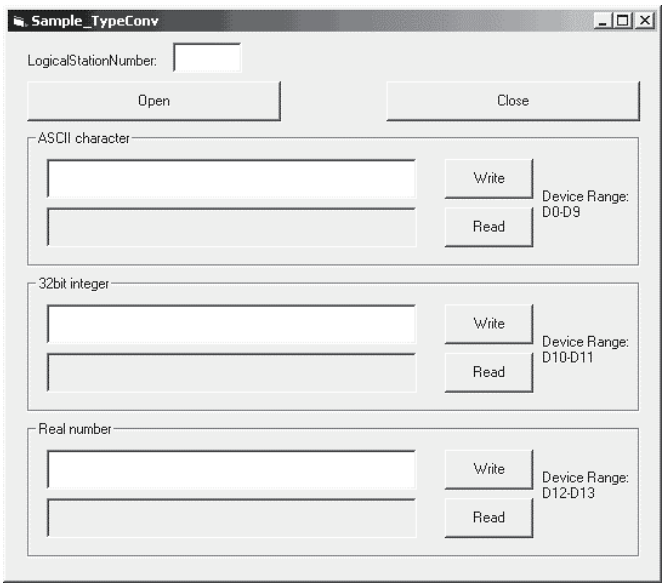
(3) Sample file list

When installed on the default path, the sample program is installed into the following folder.

C:\MELSEC\Act\Sample\Vb\Sample_TypeConv\Sample_TypeConv.vbp	Project file
C:\MELSEC\Act\Sample\Vb\Sample_TypeConv\frm_Sample_TypeConv.frm	Visual Basic Form file
C:\MELSEC\Act\Sample\Vb\Sample_TypeConv\frm_Sample_TypeConv.frx	Visual Basic Form Binary file

(4) Screen

The screen for the sample program will be explained.



Item		Description
LogicalStationNumber		Type the logical station number that was specified in communication settings on the communication setting utility.
Open		Opens the communication line.
Close		Closes the communication line.
"ASII character" frame	Write	Writes the ASCII character data, which was typed in the upper text box inside the frame, to the PLC CPU.
	Read	Displays the ASCII character data, which was read from the PLC CPU, in the lower text box inside the frame.
"32bit integer" frame	Write	Writes the 32-bit integer data, which was typed in the upper text box inside the frame, to the PLC CPU.
	Read	Displays the 32-bit integer data, which was read from the PLC CPU, in the lower text box inside the frame.
"Real number" frame	Write	Writes the real number data, which was typed in the upper text box inside the frame, to the PLC CPU.
	Read	Displays the real number data, which was read from the PLC CPU, in the lower text box inside the frame.

5.2 Visual C++® 6.0 Sample Programs

This section explains the sample programs for Visual C++® 6.0 which were created using the dispatch interface and custom interface.

5.2.1 Dispatch interface

This sample program is designed to read the type of the connection destination CPU and read/write device values using the ActAJ71QE71UDP control or ActEasyIF control on the dispatch interface.

(1) Using method

Load the form and choose the control to be used.
Clicking the Open Communication button opens the communication line through Ethernet communication.
By clicking the GetCpuType button, the type code of the PLC CPU which is currently connecting the line appears in the "Output Data" text box (top) and the CPU type in the "Output Data" text box (bottom).
Entering the device from where you want to read a value into the "Device Name" text box and clicking the GetDevice button shows the device data in the "Output Data" text box (top).
To write a device value, enter the device where you want to write a value into the "Device Name" text box and the device value to be written into the "Device Value" text box and click the SetDevice button.

Clicking the Close Communication button closes the communication line.

If an error occurs at the execution of any function, an error code appears in the "Return Value" text box.
If an error has occurred, refer to "CHAPTER 6 ERROR CODES" and eliminate the error cause.

(2) Precautions for use of the sample program

(a) When using the ActEasyIF control, set the Ethernet communication information to the logical station number "2" on the communication settings utility before starting the sample program running.

(b) When changing the control used, click the Close Communication button to close the communication line once, then change the control, and open the line again.

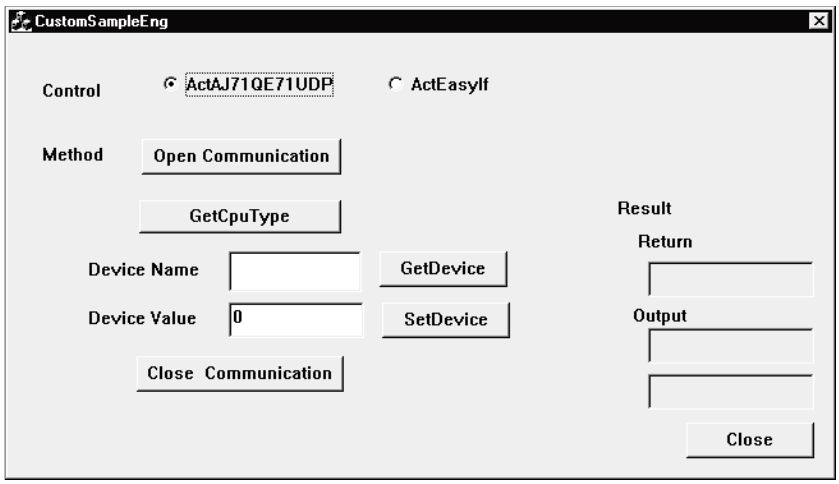
(3) Sample file list

The sample files are installed into the following folders at default installation.

C:\MELSEC\Act\Sample\Vc\SampleEng\sampleEng.rc	Resource file
C:\MELSEC\Act\Sample\Vc\SampleEng\sampleEng.dsw	Project work space
C:\MELSEC\Act\Sample\Vc\SampleEng\sampleEng.dsp	Project file
C:\MELSEC\Act\Sample\Vc\SampleEng\sampleEng.cpp	Class define file
C:\MELSEC\Act\Sample\Vc\SampleEng\sampleEngDlg.cpp	Dialog Implementation source file
C:\MELSEC\Act\Sample\Vc\SampleEng\actaj71qe71udp.cpp	ActAJ71QE71UDP Control source file
C:\MELSEC\Act\Sample\Vc\SampleEng\actaj71qe71udp.h	ActAJ71QE71UDP Control header file
C:\MELSEC\Act\Sample\Vc\SampleEng\acteasyif.cpp	ActEasyIF Control source file
C:\MELSEC\Act\Sample\Vc\SampleEng\acteasyif.h	ActEasyIF Control header file

(4) Screen

The sample program screen will be explained.



Item		Description
Control		Used to choose the control to be used.
Open Communication		Used to open the communication line.
GetCpuType		Used to read the PLC CPU type.
Device Name		Enter the device from/to where a value will be read/written.
Device Value		Enter the device value to be written.
Close Communication		Used to close the communication line.
GetDevice		Used to read the data of the device entered into the "Device Name" text box.
SetDevice		Used to write the data of the device entered into the "Device Name" text box.
Return		Shows the result of executing the function.
Output	Top	Shows the CPU type code and read device value.
	Bottom	Shows the CPU type.

5.2.2 Custom interface

This sample program is designed to read the type of the connection destination CPU and read/write device values using the ActAJ71QE71UDP control or ActEasyIF control on the custom interface.

(1) Using method

The using method is the same as that of the sample program for dispatch interface.
Refer to "Section 5.2.1 Dispatch interface, (1) Using method".

(2) Precautions for use of the sample program

The precautions are the same as those of the sample program for dispatch interface.
Refer to "Section 5.2.1 Dispatch interface, (2) Precautions for use of the sample program".

(3) Sample file list

The sample files are installed into the following folders at default installation.

C:\MELSEC\Act\Sample\Vc\CustomSampleEng\CustomSampleEng.rc	Resource file
C:\MELSEC\Act\Sample\Vc\CustomSampleEng\CustomSampleEng.dsw	Project work space
C:\MELSEC\Act\Sample\Vc\CustomSampleEng\CustomSampleEng.dsp	Project file
C:\MELSEC\Act\Sample\Vc\CustomSampleEng\CustomSampleDlgEng.cpp	Dialog implementation source file

(4) Screen

The screen is the same as that of the the sample program for dispatch interface.
Refer to "Section 5.2.1 Dispatch interface, (4) Screen".

5.2.3 Troubleshooting function sample program

This sample program performs the troubleshooting function using the ActSupport control with the dispatch interface.

(1) Using method

Load the form.

In the "ErrorCode" text box, enter the error code of which error definition you want to know.

Clicking the GetErrorMessage button displays the error definition and corrective action in the error definition displaying text box.

The displayed error definitions and corrective actions are as indicated in "6.1 Error Codes Returned by the ACT Controls".

Click the Exit button to exit from the sample program.

(2) Instructions for use of the sample program

(a) Enter the error codes in the "ErrorCode" text box with any of the error codes given in "6.1 Error Codes Returned by the ACT Controls" (0x********) or decimal numbers.

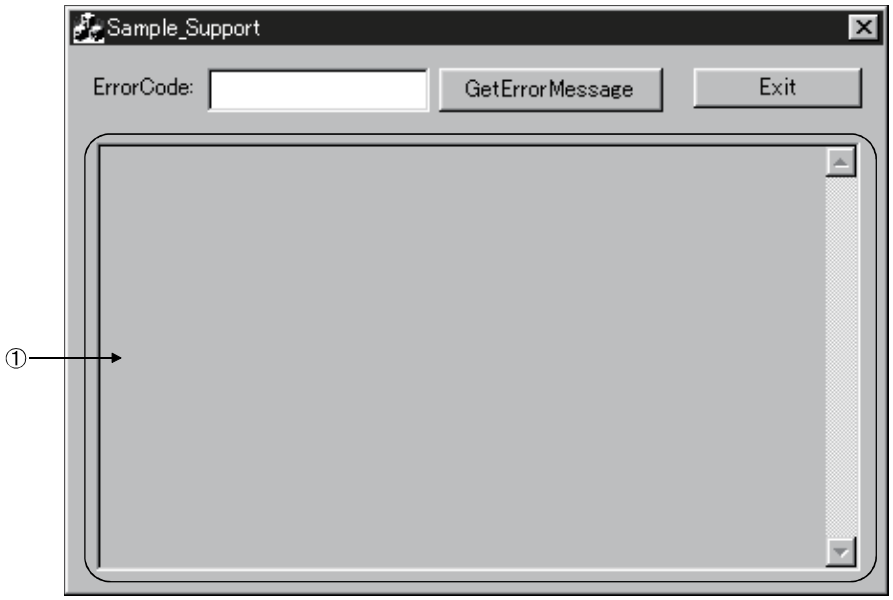
(3) Sample file list

The sample files are installed into the following folders at the time of default installation.

C:\MELSEC\Act\Sample\Vc\Sample_SupportEng\actsupport3.cpp	Source file of ActSupport control
C:\MELSEC\Act\Sample\Vc\Sample_SupportEng\ actsupport3.h	Header file of ActSupport control
C:\MELSEC\Act\Sample\Vc\Sample_SupportEng\resource.h	Resource file
C:\MELSEC\Act\Sample\Vc\Sample_SupportEng\Sample_Support.cpp	Source file for class definition
C:\MELSEC\Act\Sample\Vc\Sample_SupporEng\Sample_Support.dsp	Project file
C:\MELSEC\Act\Sample\Vc\Sample_SupportEng\Sample_Support.dsw	Project work space
C:\MELSEC\Act\Sample\Vc\Sample_SupportEng\Sample_Support.h	Header file for class definition
C:\MELSEC\Act\Sample\Vc\Sample_SupportEng\Sample_Support.rc	Resource file
C:\MELSEC\Act\Sample\Vc\Sample_SupportEng\Sample_SupportDlg.cpp	Source file for dialog implementation
C:\MELSEC\Act\Sample\Vc\Sample_SupportEng\Sample_SupportDlg.h	Header file for dialog implementation

(4) Screen

The sample program screen will be explained.



Item	Description
ErrorCode	Enter the error code.
GetErrorMessage	Used to read the error definition and corrective action of the error code entered in the "ErrorCode" text box.
Exit	Used to exit from the sample program.
① (Error definition displaying text box)	Displays the error definition and corrective action of the error code entered in the "ErrorCode" text box.

5.3 VBA Sample Programs

This section explains the sample programs for Excel and Access.

5.3.1 Excel sample program

This sample program is designed to log and graph the device values of the PLC CPU using the ActEasyIF control.
This sample program was created on Excel 2000.

(1) Using method

Open the sample sheet.
Type the logical station number, which was specified in communication settings on the communication setting utility, in the "LogicalStationNumber" input cell.
Type the first device of the devices whose data you want to read in the "DeviceName" input cell.
Type the logging interval in the "LoggingTiming" input cell.
Clicking the LoggingStart button starts logging.

When logging starts, the past 10 device values and line graphs appear on the graph.
Clicking the LoggingStop button stops logging.

Note that the logging data on the screen are not cleared.
If an error occurs during execution, the error message appears in the "Message" output cell and the error code appears in the "Return Code" output cell.
If an error has occurred, refer to "6 ERROR CODES" and remove the error cause.

(2) Precautions for use of the sample program

(a) Before running this sample program, make communication settings on the communication setting utility.

(b) When changing the input value, click the LoggingStop button to stop logging once, then change the input value, and click the LoggingStart button to start logging.

(c) In this sample program, the number of device points to be logged is preset to 10 and the number of logging times to 10.

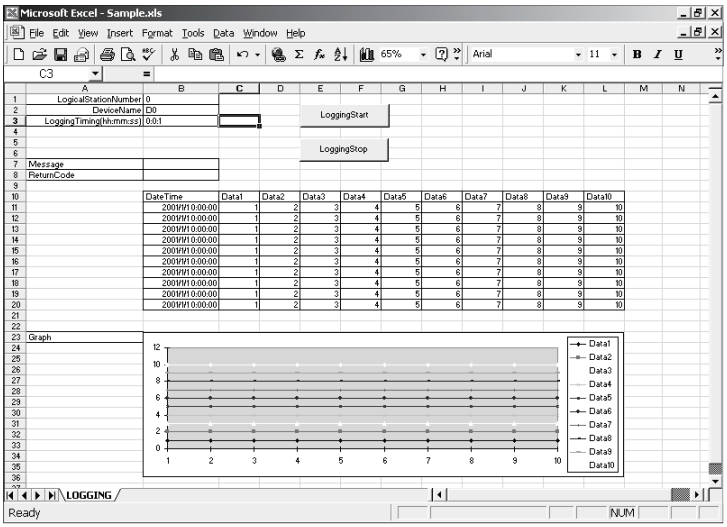
(3) Sample file

By default, the sample program is installed into the following folder.

C:\MELSEC\Act\Sample\ExcelVBA\Sample\Sample.xls Excel file

(4) Screen

The sample program screen will be explained.



Item	Description
LogicalStationNumber	Enter the logical station number that was specified in communication settings on the communication setting utility.
DeviceName	Enter the first device of the devices whose data will be read.
LoggingTimeing (hh:mm:ss)	Enter the logging interval. Example: Logging at intervals of 1 second 0:0:1 Logging at intervals of 1 hour 30 minutes 1:30:0
Message	Shows the function execution result. (Character string)
ReturnCode	Shows the function execution result. (Hexadecimal value)
Time	Shows the logging system time.
Data01 to 10	Show the logged device values.
Graph	Shows the past 10 logged values of 10 devices in the form of line graphs.
LoggingStart	Used to start logging.
LoggingStop	Used to stop logging.

5.3.2 Excel sample program (Device read/write)

This sample program performs read/write the PLC CPU devices (D0 to D9) using the ActEasyIF control.
Also, this program displays the error code and error message in the dialog box by using ActSupport control at an error occurrence.
This sample program was created using Excel 2000.

(1) Using method

Open the sample sheet.
Enter the logical station number, to which communication settings have been made in the communication settings utility, into the "LogicalStationNumber" input cell.
Clicking the DeviceRead button reads the D0 to D9 device values of the PLC CPU and displays them in the DeviceRead area.
Entering values into D0 to D9 in the DeviceWrite area and clicking the DeviceWrite button writes the values to D0 - D9 of the PLC CPU.
If read/write of the D0 - D9 devices fails, the error message corresponding to the error code is displayed in the dialog box.

(2) Precautions for use of the sample program

(a) Before executing this sample program, make communication settings within the communication settings utility.

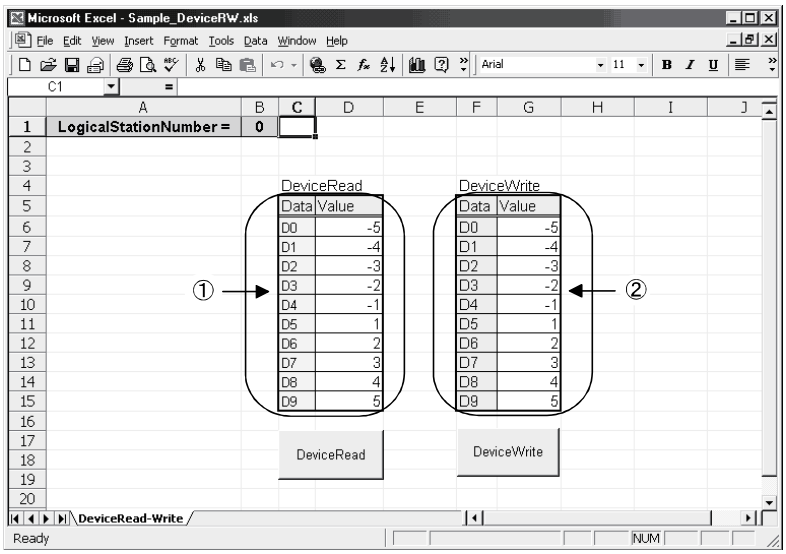
(3) Sample file

The sample program is installed into the following folder at the default installation.

C:\MELSEC\Act\Sample\ExcelVBA\Sample\Sample_DeviceRW.xls Excel file

(4) Screen

The sample program screen will be explained.



Item	Description
LogicalStationNumber	Enter the logical station number to which communication settings have been made in the communication settings utility.
① (DeviceRead area)	Displays the D0 to D9 device values of the PLC CPU.
② (DeviceWrite area)	Enter the values to be written to D0 - D9 of the PLC CPU.
DeviceRead	Used to read the D0 to D9 device values of the PLC CPU and display them in the DeviceRead area.
DeviceWrite	Used to write the device values entered into D0 - D9 of the DeviceWrite area to D0 - D9 of the PLC CPU.

5.3.3 Access sample program

This sample program is designed to log and monitor the device values of the PLC CPU using the ActEasyIF control.
This sample program was created on Access 2000.

(1) Using method

Open the database.
Type the logical station number, which was specified in communication settings on the communication setting utility, in the "LogicalStationNumber" text box.
Type the logging interval in the "LoggingTiming" text box.
Clicking the LoggingStart button starts logging.

Clicking the LoggingStop button stops logging.

Note that the logging data on the screen are not cleared.
If an error occurs during execution, the error message and error code appear in the message box.
If an error has occurred, refer to "6 ERROR CODES" and remove the error cause.

(2) Precautions for use of the sample program

(a) Before running this sample program, make communication settings on the communication setting utility.

(b) When changing the input value, click the LoggingStop button to stop logging once, then change the input value, and click the LoggingStart button to start logging.

(c) In this sample program, devices "D0" to "D4" are preset as the devices to be monitored, and "D10" to "17" as the devices to be logged.
Also, monitoring is designed to occur at 1-second intervals.

(d) This sample program logs device values up to 100 times.
If the number of logging times exceeds 100, the oldest logging data is deleted and the newest logging data is registered.

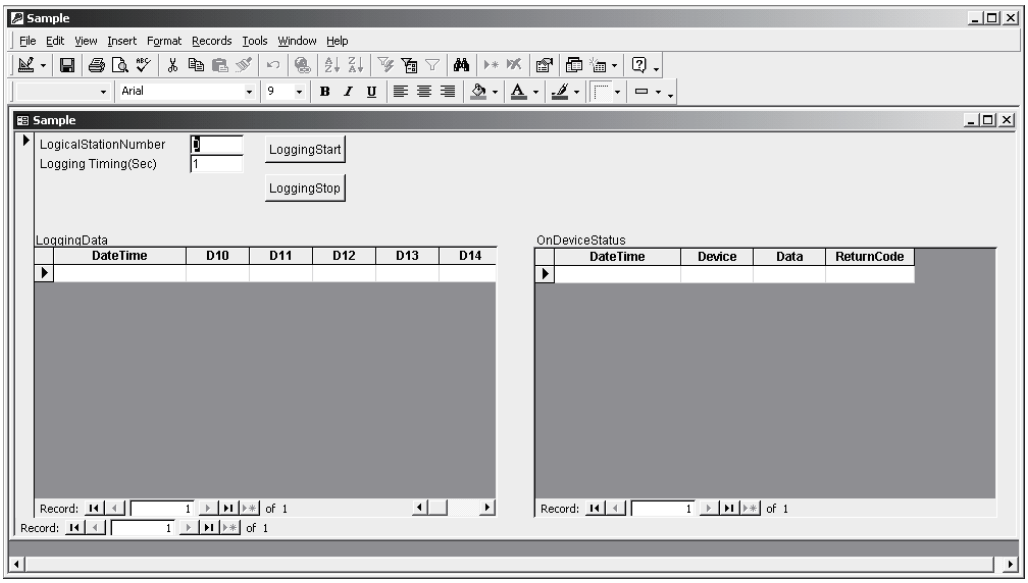
(3) Sample file

By default, the sample program is installed into the following folder.

C:\MELSEC\Act\Sample\AccessVBA\Sample\Sample.mdb Access file

(4) Screen

The sample program screen will be explained.



Item	Description
LogicalStationNumber	Enter the logical station number that was specified in communication settings on the communication setting utility.
LoggingTimeing	Enter the logging interval. (Unit: Seconds)
LoggingData	Shows the logged data.
OnDeviceStatus	Shows the devices whose conditions held among the devices being monitored.
LoggingStart	Used to start logging.
LoggingStop	Used to stop logging.

5.4 VBScript Sample Program

This section describes the VBScript sample program.

This sample program is designed to define the device values of the PLC CPU as the capacity and status of a tank and monitor their values using the ActMLEasyIF control.
This sample program was created on Microsoft® FrontPage® 2000.

(1) Using method

Opening the sample file opens the communication line to the PLC CPU used.
After that, the device values of the PLC CPU are acquired at intervals of 1 second and are used to display the capacity and status of the tank.
If an error occurs during execution, the error message and error code appear in the message box.
If an error has occurred, refer to "6 ERROR CODES" and remove the error cause.

(2) Precautions for use of the sample program

(a) Before running this sample program, make communication settings on the communication setting utility to set the logical station number to "0".

(b) In this sample program, device "D100" is used to denote the tank capacity, and device "D101" to denote the tank status.

(3) Sample file

By default, the sample program is installed into the following folders.

C:\MELSEC\Act\Sample\VBScript\SampleHTML\Sample.html	HTML file
C:\MELSEC\Act\Sample\VBScript\SampleHTML\Pics\Fill.gif	Image file
C:\MELSEC\Act\Sample\VBScript\SampleHTML\Pics\Frame.gif	Image file
C:\MELSEC\Act\Sample\VBScript\SampleHTML\Pics\LampERR.gif	Image file
C:\MELSEC\Act\Sample\VBScript\SampleHTML\Pics\LampOFF.gif	Image file
C:\MELSEC\Act\Sample\VBScript\SampleHTML\Pics\Tank.gif	Image file

(4) Screen

The sample program screens will be explained.

(a) Tank capacity : Empty
Tank status : Normal

(b) Tank capacity : Full
Tank status : Error

Item	Description	remark
Tank capacity	Indicates the tank capacity. (Within the range 0 ≤ device value ≤ 200)	Linked with device "D100"
Tank status	Indicates the tank status. Normal (device value = 0) : Blue lamp lit Error (device value <> 0) : Red lamp lit	Linked with device "D101"

5.5 ASP Sample Program

This sample program is designed to read PLC CPU data and read device values using the ActMLEasyIF control.

(1) File structure

(a) Sample.asp (data input screen)
Initial display screen used to set data for monitoring.

(b) SampleControl.asp (data getting screen)
Used to get the input data of Sample.asp, store them into the global variables, and check them for errors.

(c) SampleMon.asp (data display screen)
Displays data in accordance with the input data of Sample.asp. Displays a message if an error occurs.

(2) Using method

Store Sample.asp, SampleControl.asp and SampleMon.asp in the same folder on the WWW server.
Browse the URL of Sample.asp on the Microsoft® Internet Explorer and display the initial screen.
Entering "MonitorTiming", "LogicalStationNumber", "DeviceName" and "DeviceSize" on the initial screen and pressing the [MonitorStart] button start Open processing, ReadDeviceBlock processing, GetCpuType processing and Close processing.
The input data appear in "MonitorTiming:", "LogicalStationNumber:", "DeviceName:" and "DeviceSize:" on the data display screen.
"Message:" displays error occurrence processing when an error occurs in the corresponding processing.
"Return Code:" shows the result of the corresponding processing.
"CpuType:" shows the type of the PLC CPU connected.
"ReadData(Hex)" displays the device data of the PLC CPU connected.
If an error has occurred, refer to "6 ERROR CODES" and remove the error cause.
The data display screen repeats updating at the intervals of "MonitorTiming:".
Pressing the [Back] button returns to the initial screen.

(3) Precautions for use of the sample program

Before running this sample program, make communication settings on the communication setting utility.

(4) Sample file list

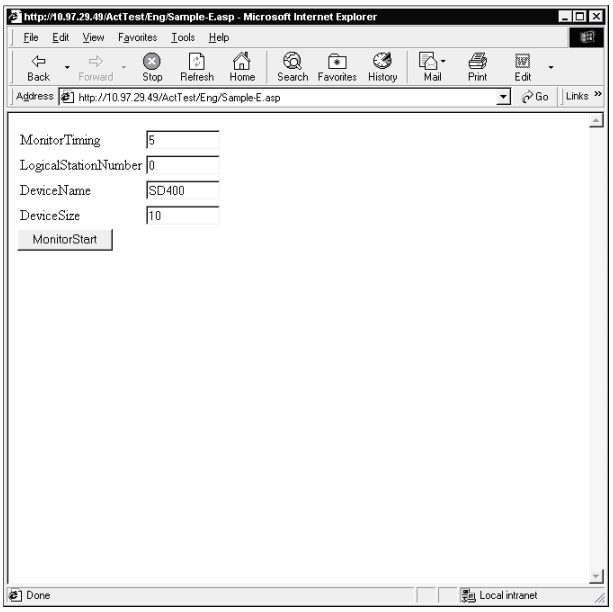
By default, the sample program is installed in the following folders.

C:\MELSEC\Act\Sample\VBScript\SampleASP\Sample-E.asp	ASP file
C:\MELSEC\Act\Sample\VBScript\SampleASP\SampleControl-E.asp	ASP file
C:\MELSEC\Act\Sample\VBScript\SampleASP\SampleMon-E.asp	ASP file

(5) Screen

The sample program screens will be explained.

(a) Data input screen (Sample-E.asp)

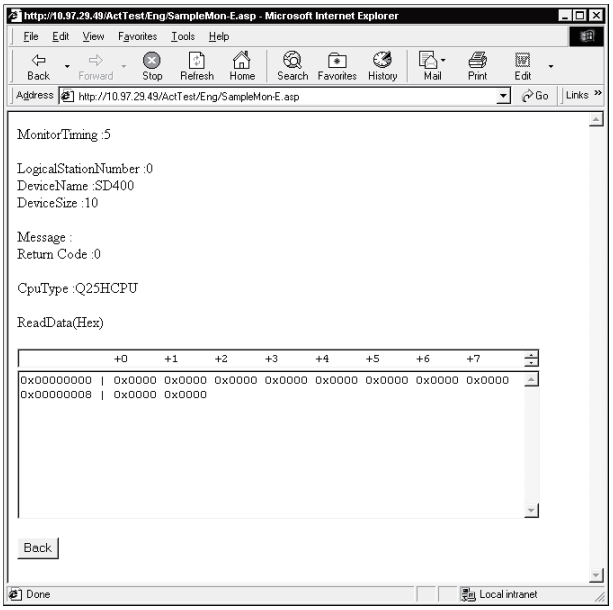


Item	Description
MonitorTiming	Enter the monitoring intervals.
LogicalStationNumber	Enter the logical station number.
DeviceName	Enter the device name from where data will be read.
DeviceSize	Enter the number of points of the devices from where data will be read.
MonitorStart	Used to start monitor processing.

(b) Data getting screen (SampleControl.asp)

The data getting screen is a page used to store the data entered on the data input screen into the global variables and check them for errors. This screen is not displayed on the Internet Explorer screen.

(c) Data display screen (SampleMon-E.asp)



Item	Description
MonitorTiming :	Shows the monitoring intervals.
LogicalStationNumber :	Shows the logical station number.
DeviceName :	Shows the device name from where data will be read.
DeviceSize :	Shows the number of points of the devices from where data will be read.
Message :	Shows a message at error occurrence.
Return Code :	Shows the execution result of the corresponding processing.
CpuType	Shows the CPU type.
ReadData(Hex)	Shows the read device values.
Back	Used to return to the initial screen.

5.6 Visual Basic® .NET(Visual Studio® .NET 2003)Sample Programs

This section explains the sample programs for Visual Basic® .NET (Visual Studio® .NET 2003) that were created using the Act controls.

5.6.1 Type conversion sample program

This sample program reads/writes ASCII character string, 32-bit integer or real number data from/to the PLC CPU devices in the corresponding data format using the ActEasyIF control, and if an error occurs during execution, displays the error message using the ActSupport control.

(1) Using method

The using method is the same as for Visual Basic. Refer to Section 5.1.3.

(2) Precautions for use of the sample program

The precautions are the same as for Visual Basic. Refer to Section 5.1.3.

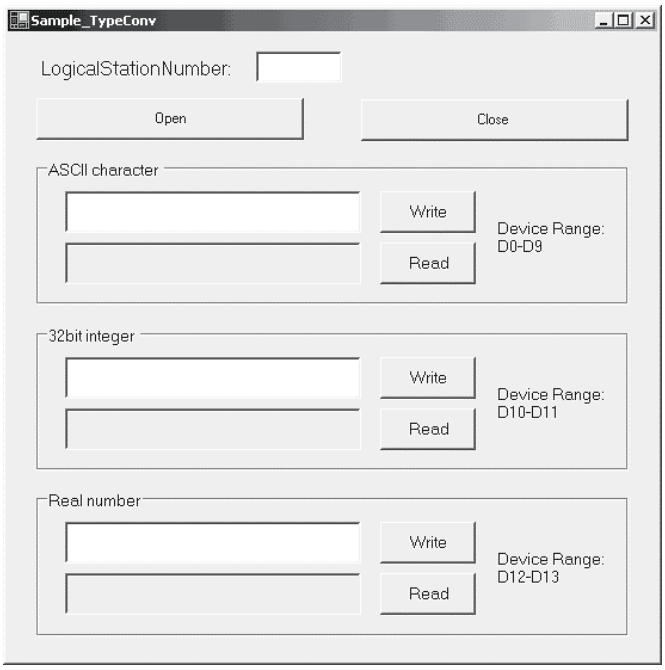
(3) Sample file list

When installed on the default path, the sample program is installed into the following folder.

C:\MELSEC\Act\Sample\Vb.NET\Sample_TypeConv\AssemblyInfo.vb	Assembly information file
C:\MELSEC\Act\Sample\Vb.NET\Sample_TypeConv\Sample_TypeConv.resx	Resource file
C:\MELSEC\Act\Sample\Vb.NET\Sample_TypeConv\Sample_TypeConv.sln	Visual Studio Solution file
C:\MELSEC\Act\Sample\Vb.NET\Sample_TypeConv\Sample_TypeConv.vb	VB file
C:\MELSEC\Act\Sample\Vb.NET\Sample_TypeConv\Sample_TypeConv.vbproj	VB main project file

(4) Screen

The screen for the sample program will be explained.



Item		Description
LogicalStationNumber		Type the logical station number that was specified in communication settings on the communication setting utility.
Open		Opens the communication line.
Close		Closes the communication line.
"ASII character" frame	Write	Writes the ASCII character data, which was typed in the upper text box inside the frame, to the PLC CPU.
	Read	Displays the ASCII character data, which was read from the PLC CPU, in the lower text box inside the frame.
"32bit integer" frame	Write	Writes the 32-bit integer data, which was typed in the upper text box inside the frame, to the PLC CPU.
	Read	Displays the 32-bit integer data, which was read from the PLC CPU, in the lower text box inside the frame.
"Real number" frame	Write	Writes the real number data, which was typed in the upper text box inside the frame, to the PLC CPU.
	Read	Displays the real number data, which was read from the PLC CPU, in the lower text box inside the frame.

5.6.2 Read/Write sample program

This sample program reads/writes the device values of the PLC CPU and monitors the device status using the ActEasyIF control or ActQCPUQ control.

(1) Using method

Load the form and choose the control to be used.
Click the Open button to open the communication line.

When using the ActEasy IF control, type the logical number, which was specified in communication settings on the communication setting utility, in the "LogicalStationNumber" text box before clicking the Open button.

To execute random read, type the source device name and number of points, in the "DeviceName" and "DeviceSize" text boxes inside the "Random Read/Write" frame, and click the ReadDeviceRandom2 button. This displays the device data in the "Data" text box inside the "Output" frame.
To execute random write, type the destination device name and number of points, in the "DeviceName" and "DeviceSize" text boxes inside the "Random Read/Write" frame, and also type the device value, which will be written, in the "DeviceData" text box inside that frame, and click the WriteDeviceRandom2 button. This writes the device value to the PLC CPU.
To execute block read, type the source device name and number of points, in the "DeviceName" and "DeviceSize" text boxes inside the "Block Read/Write" frame, and click the ReadDeviceBlock2 button. This displays the device data in the "Data" text box inside the "Output" frame.
To execute block write, type the destination device name and number of points, in the "DeviceName" and "DeviceSize" text boxes inside the "Block Read/Write" frame, and also type the device value, which will be written, in the "DeviceData" text box inside that frame, and click the WriteDeviceBlock2 button. This writes the device value to the PLC CPU.
To register the device status monitor, type the device name, number of points, device value and status monitor cycle in the "DeviceName", "DeviceSize", "DeviceData" and "MonitorCycle" text boxes inside the "Status Entry/Free" frame as the event occurrence conditions, and click the EntryDeviceStatus button.

When the registered event occurrence conditions are satisfied, the event data are displayed in the "Data" text box inside the "Output" frame.
To cancel the already registered device status monitor, click the FreeDeviceStatus button.

If an error occurs during execution, the error code appears in the "Return Code" box inside the "Output" frame.
If an error has occurred, refer to "6 ERROR CODES" and remove the error cause.
Click the Close button to close the communication line.

(2) Precautions for use of the sample program

(a) When using the ActEasyIF control, make communication settings on the communication setting utility before running this sample program.

(b) When the ActQCPUQ control is used, this sample program is designed to use the PLC CPU as "Q02(H)", the COM port as "COM1", and the transmission speed as 19200bps fixed.
The specification can be changed by changing values of the corresponding property.

(c) When changing the control to be used, click the Close button to close the communication line once, then change the control, and click the Open button to reopen the line.

(3) Sample file list

When installed on the default path, the sample program is installed into the following folder.

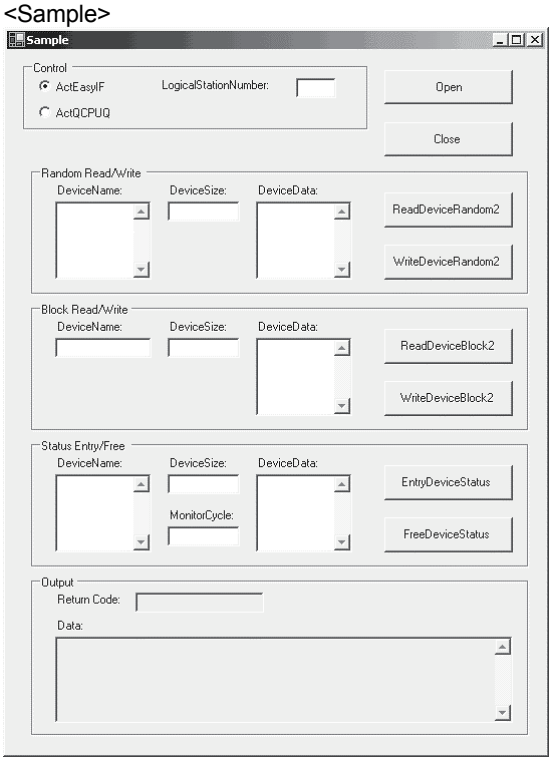
C:\MELSEC\Act\Sample\Vb.NET\Sample\AssemblyInfo.vb	Assembly information file
C:\MELSEC\Act\Sample\Vb.NET\Sample\Sample.resx	Resource file
C:\MELSEC\Act\Sample\Vb.NET\Sample\Sample.sln	Visual Studio Solution file
C:\MELSEC\Act\Sample\Vb.NET\Sample\Sample.vb	VB file
C:\MELSEC\Act\Sample\Vb.NET\Sample\Sample.vbproj	VB main project file

C:\MELSEC\Act\Sample\Vb.NET\Sample_References\AssemblyInfo.vb	Assembly information file
C:\MELSEC\Act\Sample\Vb.NET\Sample_References\Sample_References.resx	Resource file
C:\MELSEC\Act\Sample\Vb.NET\Sample_References\Sample_References.sln	Visual Studio Solution file
C:\MELSEC\Act\Sample\Vb.NET\Sample_References\Sample_References.vb	VB file
C:\MELSEC\Act\Sample\Vb.NET\Sample_References\Sample_References.vbproj	VB main project file

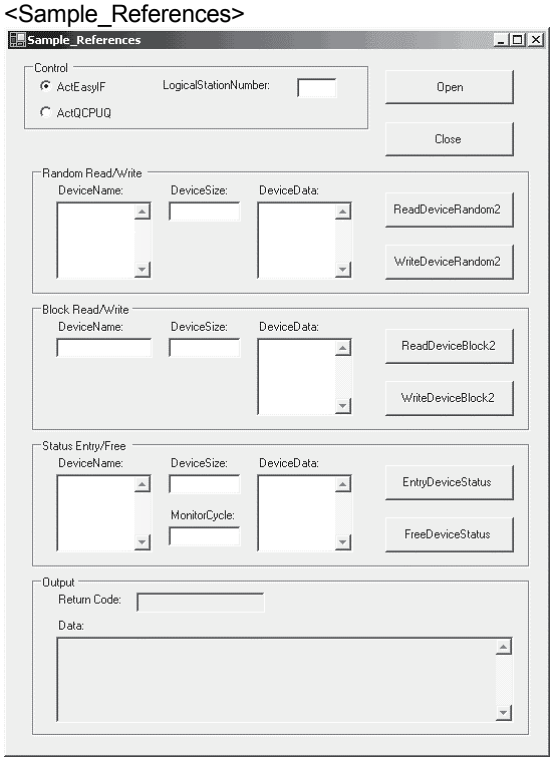
(4) Screen

The screen for the sample program will be explained.

<Sample>



<Sample_References>



5 - 30

Item		Description
"Control" frame	ActEasyIF, ActQCPUQ	Choose the control to be used.
	LogicalStationNumber	Type the logical station number that was specified in communication settings on the communication setting utility.
Open		Opens the communication line.
Close		Closes the communication line.
"Random Read/Write" frame	DeviceName	Type the device name for which random read/write will be executed.
	DeviceSize	Type the number of device points for which random read/write will be executed.
	DeviceData	Type the device value that will be written randomly.
	ReadDeviceRandom2	Randomly reads device data from the PLC CPU to the data source typed in the "DeviceName" and "DeviceSize" text boxes inside the frame, and displays the data in the "Data" text box inside the "Output" frame.
	WriteDeviceRandom2	Randomly writes device data to the PLC CPU from the data source typed in the "DeviceName", "DeviceSize" and "DeviceData" text boxes inside the frame.
"Block Read/Write" frame	DeviceName	Type the device name for which block read/write will be executed.
	DeviceSize	Type the number of device points for which block read/write will be executed.
	DeviceData	Type the device values that will be block-written.
	ReadDeviceBlock2	Block-reads device data from the PLC CPU to the data source typed in the "DeviceName" and "DeviceSize" text boxes inside the frame, and displays the data in the "Data" text box inside the "Output" frame.
	WriteDeviceBlock2	Block-writes device data to the PLC CPU from the data source typed in the "DeviceName", "DeviceSize" and "DeviceData" text boxes inside the frame.
"Status Entry/Free" frame	DeviceName	Type the device name as an event occurrence condition.
	DeviceSize	Type the number of device points as an event occurrence condition.
	MonitorCycle	Type the event monitor cycle.
	DeviceData	Type the device value as an event occurrence condition.
	EntryDeviceStatus	Registers the ON device status/event to the data source typed in the "DeviceName", "DeviceSize", "MonitorCycle" and "DeviceData" text boxes inside the frame. When the registered event occurrence conditions is satisfied, the event data is displayed in the "Data" text box of the "Output" frame.
	FreeDeviceStatus	Deletes the ON device status/event already registered.
"Output" frame	Return Code	Displays the execution result of each method.
	Data	Displays the read device values.

5.7 Visual C++® .NET(Visual Studio® .NET 2003) Sample Programs

This section explains the sample programs for Visual C++® .NET (Visual Studio® .NET 2003) that were created using the Act controls.

5.7.1 Read/Write sample program

This sample program reads/writes the device values of the PLC CPU and monitors the device status using the ActEasyIF control or ActQCPUQ control.

(1) Using method

The using method is the same as for Visual Basic® .NET (Visual Studio® .NET 2003). Refer to Section 5.6.2.

(2) Precautions for use of the sample program

The precautions are the same as for Visual Basic® .NET (Visual Studio® .NET 2003). Refer to Section 5.6.2.

(3) Sample file list

When installed on the default path, the sample program is installed into the following folder.

C:\MELSEC\Act\Sample\Vc.NET\Sample\app.ico	Icon file
C:\MELSEC\Act\Sample\Vc.NET\Sample\app.rc	Resource file
C:\MELSEC\Act\Sample\Vc.NET\Sample\AssemblyInfo.cpp	Assembly information file
C:\MELSEC\Act\Sample\Vc.NET\Sample\Form1.cpp	C++ source file
C:\MELSEC\Act\Sample\Vc.NET\Sample\Form1.h	C header file
C:\MELSEC\Act\Sample\Vc.NET\Sample\Form1.resX	Resource file
C:\MELSEC\Act\Sample\Vc.NET\Sample\resource.h	C header file
C:\MELSEC\Act\Sample\Vc.NET\Sample\Sample.sln	Visual Studio Solution file
C:\MELSEC\Act\Sample\Vc.NET\Sample\Sample.vcproj	VC++ main project file
C:\MELSEC\Act\Sample\Vc.NET\Sample\stdafx.cpp	C++ source file
C:\MELSEC\Act\Sample\Vc.NET\Sample\stdafx.h	C header file

C:\MELSEC\Act\Sample\Vc.NET\Sample_References\app.ico	Icon file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References\app.rc	Resource file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References\AssemblyInfo.cpp	Assembly information file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References\Form1.cpp	C++ source file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References\Form1.h	C header file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References\Form1.resX	Resource file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References\resource.h	C header file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References\Sample_References.sln	Visual Studio Solution file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References\Sample_References.vcproj	VC++ main project file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References\stdafx.cpp	C++ source file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References\stdafx.h	C header file

(4) Screen

The screen is the same as for Visual Basic® .NET (Visual Studio® .NET 2003). Refer to Section 5.6.2.

5.8 Visual Basic® .NET (Visual Studio® 2005) Sample Program

In Visual Basic® .NET (Visual Studio® 2005), use converted sample program for Visual Basic® .NET (Visual Studio® .NET 2003).
For a sample program for Visual Basic® .NET (Visual Studio® .NET 2003), refer to Section 5.6.

5.9 Visual C++® .NET (Visual Studio® 2005) Sample Program

This section explains a sample program for Visual C++® .NET (Visual Studio® 2005), created using Act control.

5.9.1 Read/Write sample program

This sample program reads/writes the device values of the PLC CPU and monitors the device status using the ActEasyIF control or ActQCPUQ control.

(1) Using method

The using method is the same as for Visual Basic® .NET (Visual Studio® .NET 2003). Refer to Section 5.6.2.

(2) Precautions for use of the sample program

The precautions are the same as for Visual Basic® .NET (Visual Studio® .NET 2003). Refer to Section 5.6.2.

(3) Sample file list

When installed on the default path, the sample program is installed into the following folder.

C:\MELSEC\Act\Sample\Vc.NET\Sample2005\Sample2005.sln	Visual Studio Solution file
C:\MELSEC\Act\Sample\Vc.NET\Sample2005\Sample2005\app.ico	Icon file
C:\MELSEC\Act\Sample\Vc.NET\Sample2005\Sample2005\app.rc	Resource file
C:\MELSEC\Act\Sample\Vc.NET\Sample2005\Sample2005\AssemblyInfo.cpp	Assembly information file
C:\MELSEC\Act\Sample\Vc.NET\Sample2005\Sample2005\Form1.h	C header file
C:\MELSEC\Act\Sample\Vc.NET\Sample2005\Sample2005\Form1.resx	Resource file
C:\MELSEC\Act\Sample\Vc.NET\Sample2005\Sample2005\resource.h	C header file
C:\MELSEC\Act\Sample\Vc.NET\Sample2005\Sample2005\Sample2005.cpp	C++ source file
C:\MELSEC\Act\Sample\Vc.NET\Sample2005\Sample2005\Sample2005.vcproj	VC++ main project file
C:\MELSEC\Act\Sample\Vc.NET\Sample2005\Sample2005\stdafx.cpp	C++ source file
C:\MELSEC\Act\Sample\Vc.NET\Sample2005\Sample2005\stdafx.h	C header file

C:\MELSEC\Act\Sample\Vc.NET\Sample_References2005\Sample_References2005.sln
Visual Studio Solution file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References2005\Sample_References2005\app.ico
Icon file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References2005\Sample_References2005\app.rc
Resource file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References2005\Sample_References2005\AssemblyInfo.cpp
Assembly information file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References2005\Sample_References2005\Form1.h
C header file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References2005\Sample_References2005\Form1.resx
Resource file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References2005\Sample_References2005\resource.h
C header file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References2005\Sample_References2005\Sample_References2005.cpp
C++ source file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References2005\Sample_References2005\Sample_References2005.vcproj
VC++ main project file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References2005\Sample_References2005\stdafx.cpp
C++ source file
C:\MELSEC\Act\Sample\Vc.NET\Sample_References2005\Sample_References2005\stdafx.h
C header file

(4) Screen

The screen is the same as for Visual Basic® .NET (Visual Studio® .NET 2003).
Refer to Section 5.6.2.

6 ERROR CODES

This chapter describes the error codes returned by the ACT controls and the error codes returned by the CPUs, modules and network boards.

6.1 Error Codes Returned by the ACT Controls

The following table gives the error codes returned by the ACT controls.

Error Code	Error Definition	Corrective action
0x00000000	Normal end	————
0x01010002	Timeout error	Check the property timeout value. Check the settings in the communication settings utility. Check the PLC, Unit settings, state of the cable, etc. Close and Open again. Exit the program and restart the IBM-PC/AT compatible.
0x01010005	Message error.	Check the system noise. Check the property timeout value. Check the settings in the communication settings utility. Check the PLC, unit settings, status of the cable, etc. Close and Open again. Exit the program, restart the IBM-PC/AT compatible.
0x01010010	PLC No. error Communication could not be made with the specified station number.	Check the station number set on the communication setup utility. Check the station number set to ActStationNumber.
0x01010011	Mode Error Command not supported.	Check if the correct PLC type setting is done. Check the PLC, Unit settings, status of the cable, etc. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01010012	Special Unit Specification error.	Check the specified address of the special unit.
0x01010013	Other data error Communication cannot be made for some cause.	Check that the system configuration is not an unsupported configuration. Check that the CPU type setting is correct. Exit the program and restart the IBM-PC/AT compatible. Contact our telephone center.
0x01010018	Remote request error Remote operation is being performed in the path different from the communicating path.	Cancel the remote operation being performed in the other path.
0x01010020	Link error Link communications could not be made.	Check that reset operation is not performed for the other end of communication, the control station (master station) or the station passed through by routing. Check that the network parameter setting is correct.
0x01010021	Special Unit Bus Error. There is no response from the special unit under consideration.	Repair or exchange the special unit under consideration. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01800001	No command error The method does not support.	The corresponding method does not support.
0x01800002	Memory lock error	Exit the program and restart the IBM-PC/AT compatible.
0x01800003	Memory securing error	Exit the program and restart the IBM-PC/AT compatible. Exit other programs and secure free memory area.
0x01800004	DLL load error	Exit the program and restart the IBM-PC/AT compatible. Exit other programs and secure free memory area. Reinstall MX Component.

Error Code	Error Definition	Corrective action
0x01800005	Resource securing error	Exit the program and restart the IBM-PC/AT compatible. Exit other programs and secure free memory area.
0x01801001	Resource Timeout Error. The resource could not be retrieved within the specified time.	Execute again after the other object completes the communication. Execute again after increasing the timeout value. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01801002	Multi-line open error	Exit the program and restart the IBM-PC/AT compatible.
0x01801003	Open not yet executed	Exit the program and restart the IBM-PC/AT compatible.
0x01801004	Open Type error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01801005	Specified port error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01801006	Specified module error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01801007	Specified CPU error	Check the CPU type set to ActCpuType. Check that the system configuration is not an unsupported configuration. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Check the packet type set to ActPacketType.
0x01801008	Target station access error	Review the target station.
0x01801009	Registry open failure. Failed while opening data key of the registry.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180100A	Packet Type Error. The packet type specified is incorrect.	Recheck the ActPacketType. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0180100B	Protocol Type Error. The protocol specified is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180100C	Registry search failure	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0180100D	GetProcAddress failure	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0180100E	DLL non-load error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x0180100F	Another Object in execution Method cannot be executed because of exclusive control in progress	Execute again after some time.
0x01802001	Device error The device character string specified in the method is an unauthorised device character string.	Review the device name.

Error Code	Error Definition	Corrective action
0x01802002	Device number error The device character string number specified in the method is an unauthorised device number.	Review the device number.
0x01802003	Program Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802004	Sumcheck error The sumcheck value of the received data is abnormal.	Check the module side sumcheck setting. Check the sumcheck property of the control. Check the cable. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802005	Size error The number of points specified in the method is unauthorised.	Check the number of points specified in the method. Review the system, e.g. PLC CPU, module setting and cable status. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01802006	Block number error The block specifying number in the device character string specified in the method is unauthorised.	Review the block specifying number in the device character string specified in the method.
0x01802007	Receive data error The data received is abnormal.	Review the system, e.g. PLC CPU, module setting and cable status. Check the cable. Exit the program and restart the IBM-PC/AT compatible.
0x01802008	Write Protect Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802009	Reading Parameters error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180200A	Writing Parameters error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180200B	PLC type mismatch The CPU type set to the property and the CPU type set on the communication settings utility do not match the CPU type on the other end of communication.	Set the correct CPU type as the CPU type of the property. Set the correct CPU type on the communication settings utility. Review the system, e.g. PLC CPU, module setting and cable status.
0x0180200C	Request Cancel Error The request was cancelled while being processed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180200D	Drive Name Error The specified drive name is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x0180200E	Beginning Step Error The beginning step specified is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180200F	Parameter Type Error The parameter type is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802010	File Name Error The file name is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802011	Status Error The status of Registration/Cancellation/Setting is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802012	Detailed Condition Field Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802013	Step Condition Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802014	Bit Device Condition Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802015	Parameter Settings Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802016	Error in specifying telephone exchange number. Method does not support the operations corresponding to the specified telephone exchange number.	Check the telephone exchange number. Check if the method being executed is supported or not. Check the system configuration such as PLC, unit, etc.
0x01802017	Keyword Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802018	Read/Write Flag Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802019	Refresh Method Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180201A	Buffer Access Method Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180201B	Start Mode/Stop Mode Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180201C	Written clock data error Clock data specified for write cannot be written properly since that data is in error.	Review the clock data to be written.

Error Code	Error Definition	Corrective action
0x0180201D	Online clock data write error Write of clock data failed. Clock data cannot be written since the PLC CPU is during RUN.	Place the PLC CPU in the STOP status.
0x0180201E	ROM drive Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180201F	While Tracing error Invalid operation was carried out during trace.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802020	First I/O number error The first I/O number specified in the method is an unauthorised value.	Check the value of the first I/O number specified in the method. Using the GPP function, check the PLC CPU parameters (I/O assignment). Exit the program and restart the IBM-PC/AT compatible.
0x01802021	First address error The buffer address specified in the method is an unauthorised value.	Check the value of the buffer address specified in the method. Exit the program and restart the IBM-PC/AT compatible.
0x01802022	Pattern Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802023	SFC Block No. Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802024	SFC Step No. Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802025	Step No. Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802026	Data Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802027	System Data Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802028	Error in number of TC settings Value	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802029	Clear Mode Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180202A	Signal Flow Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x0180202B	Version Control Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180202C	Monitor Not Registered error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180202D	PI Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180202E	PI No Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180202F	Error in Number of PIs	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802030	Shift Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802031	File Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802032	Specified Unit error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802033	Error check flag Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802034	Step RUN operation error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802035	Step RUN data error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802036	During Step RUN error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802037	Write error while running program corresponding to E2PROM	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802038	Clock data read/write error The clock data read/write method was executed for the PLC CPU which does not have the clock devices.	Do not execute clock data read/write.
0x01802039	Trace not completed error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x0180203A	Registration Clear Flag Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180203B	Operation error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180203C	Error in the number of exchanges	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180203D	Error in number of loops specified	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180203E	Retrieve data selection	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180203F	Error in number of SFC cycles	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802040	Motion PLC Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802041	Motion PLC Communication error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802042	Fixed execution time setting error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802043	Error in number of functions	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802044	System information specification error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802045	Registration Condition Not Formed error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802046	Function No. Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802047	RAM drive error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802048	ROM drive error at the booting side	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x01802049	Transfer mode specification error at the booting side	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180204A	Insufficient memory error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180204B	Back up drive ROM error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180204C	Block size error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180204D	Detached during RUN state error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180204E	Unit Already Registered error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0180204F	Password Registration Data Full error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802050	Password Not Registered error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802051	Remote Password Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802052	IP Address Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802053	Timeout value out of range error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802054	Command not detected error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802055	Trace execution type error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802056	Version error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01802057	Tracking cable error The tracking cable is faulty. The PLC CPU status is error.	Reexamine the system such as the PLC CPU, module setting and cable status.

Error Code	Error Definition	Corrective action
0x0180205C	Keyword protection error PLC is protected by the key word.	Disable the keyword and execute again.
0x0180205D	Keyword disable error The inputted keyword is wrong.	Input a correct keyword.
0x0180205E	Keyword protecting error PLC did not accept the protecting command.	Execute again or re-switch the power of the PLC.
0x0180205F	Keyword entry error An illegal character is included in the inputted keyword.	Input a correct keyword.
0x01802060	Keyword deletion error The inputted keyword is wrong.	Input a correct keyword.
0x01802062	Received packet CRC check error. An error occurred in CRC check for receive packet data.	Execute the communication process again.
0x01802063	Received packet CRC check error. An error occurred in CRC check for whole data file of receive packet.	Execute the communication process again.
0x01802064	FX Series PLC connection error.	Please contact out telephone center.
0x01802070	Online change program error. No target program for online change exists in the PLC CPU.	Execute the online change after turning the PLC CPU to STOP.
0x01802071	Ether direct communication multiple response receive error. Multiple responses were received during Ether direct communication.	Check that the personal computer and the PLC CPU are in a one-to-one connection.
0x01802072	Ether direct communication error. Cannot communicate because the PLC CPU is being accessed by another personal computer during Ether direct communication.	Check that the personal computer and the PLC CPU are in a one-to-one connection.
0x01802073	PLC CPU search response error. The number of responses in the PLC CPU search exceeded the maximum number to be searched.	Reduce the number of PLCs on the network to 1024 or less.
0x01802074	Redundant system other system connection diagnostics error.	Disconnect the cable and connect it to the currently disconnected PLC CPU. Or, change the redundant PLC specification to the self system.
0x01808001	Multiple Open Error Open method was executed while it was open	Exit the program and restart the IBM-PC/AT compatible. Execute any method other than Open.
0x01808002	Channel number specifying error The port number set to the property and the port number set on the communication settings utility are unauthorised values.	Set the correct value to the port number of the property. Make communication settings again on the communication settings utility.
0x01808003	Driver not yet started The network board driver is not started.	The network board driver is not started. Start the driver.
0x01808004	Error in overlap event generation	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x01808005	MUTEX generation error Creation of MUTEX to exercise exclusive control failed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01808006	Error in socket object generation Socket object could not be created	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01808007	Socket object generation error Creation of the Socket object failed.	Check for a running application which uses the same port number. Retry after changing the port number value of the property. Retry after changing the port number value on the communication settings utility. Make Ethernet board and protocol settings on the control panel of the OS. Exit the program and restart the IBM-PC/AT compatible.
0x01808008	Port connection error Establishment of connection failed. The other end does not respond.	Review the IP address and port number values of the properties. Review the port number value on the communication settings utility. Review the system, e.g. PLC CPU, module setting and cable status. Exit the program and restart the IBM-PC/AT compatible.
0x01808009	COM port handle error The handle of the COM port cannot be acquired. The COM port objet cannot be copied. The SOCKET object cannot be copied.	Check for an application which uses the COM port. Exit the program and restart the IBM-PC/AT compatible.
0x0180800A	Buffer size setting error Setting of the COM port buffer size failed.	Check for an application which uses the COM port. Make COM port setting on the control panel of the OS. Exit the program and restart the IBM-PC/AT compatible.
0x0180800B	DCB value acquisition error Acquisition of the COM port DCB value failed.	Check for an application which uses the COM port. Make COM port setting on the control panel of the OS. Exit the program and restart the IBM-PC/AT compatible.
0x0180800C	DCB setting error Setting of the COM port DCB value failed.	Check for an application which uses the COM port. Make COM port setting on the control panel of the OS. Exit the program and restart the IBM-PC/AT compatible.
0x0180800D	Time-out value setting error Setting of the COM port time-out value failed.	Review the time-out value of the property. Review the time-out value on the communication settings utility. Check for an application which uses the COM port. Make COM port setting on the control panel of the OS. Exit the program and restart the IBM-PC/AT compatible.
0x0180800E	Shared memory open error Open processing of shared memory failed.	Check whether the GX Simulator has started. Exit the program and restart the IBM-PC/AT compatible.
0x01808101	Duplex close error	Exit the program and restart the IBM-PC/AT compatible.
0x01808102	Handle close error Closing of the COM port handle failed.	Exit the program and restart the IBM-PC/AT compatible.
0x01808103	Driver close error Closing of the driver handle failed.	Exit the program and restart the IBM-PC/AT compatible.

Error Code	Error Definition	Corrective action
0x01808104	Overlap Event Close Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01808105	Mutex Handle Close Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01808106	COM Port Handle Close Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01808201	Send error Data send failed.	Review the system, e.g. PLC CPU, module setting and cable status. Make COM port setting on the control panel of the OS. Make Ethernet board and protocol settings on the control panel. Retry the method. Exit the program and restart the IBM-PC/AT compatible.
0x01808202	Send data size error Data send failed.	Exit the program and restart the IBM-PC/AT compatible.
0x01808203	Queue clear error Clearing of the COM port queue failed.	Exit the program and restart the IBM-PC/AT compatible. Perform Close once and execute Open again.
0x01808301	Receive error Data receive failed.	Review the system, e.g. PLC CPU, module setting and cable status. Review the time-out value of the property. Review the time-out value on the communication settings utility. Retry the method. Exit the program and restart the IBM-PC/AT compatible.
0x01808302	Not Sent error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01808303	Error in retrieving Overlap Event	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01808304	Receive buffer size shortage Receive data was larger than the receive buffer size prepared for the system.	Exit the program and restart the IBM-PC/AT compatible.
0x01808401	Control error Changing of the COM port communication control failed.	Exit the program and restart the IBM-PC/AT compatible.
0x01808402	Signal Line Control Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01808403	Signal line specifying error Changing of the COM port communication control failed.	Exit the program and restart the IBM-PC/AT compatible.
0x01808404	Open not yet executed	Execute Open. Exit the program and restart the IBM-PC/AT compatible.
0x01808405	Communication parameter error The data bit and stop bit combination of the properties is unauthorised.	Review the data bit and stop bit values of the properties. Set them again on the communication settings utility.

Error Code	Error Definition	Corrective action
0x01808406	Transmission speed value specifying error The transmission speed of the property is unauthorised.	Review the transmission speed value of the property. Set it again on the communication settings utility.
0x01808407	Data length error The data bit value of the property is unauthorised.	Review the data bit value of the property. Set it again on the communication settings utility.
0x01808408	Parity specifying error The parity value of the property is unauthorised.	Review the parity value of the property. Set it again on the communication settings utility.
0x01808409	Stop bit specifying error The stop bit value of the property is unauthorised.	Review the stop bit value of the property. Set it again on the communication settings utility.
0x0180840A	Communication control setting error The control value of the property is unauthorised.	Review the control value of the property. Set it again on the communication settings utility.
0x0180840B	Time-out error Though the time-out period had elapsed, data could not be received.	Review the time-out value of the property. Set it again on the communication settings utility. Review the system, e.g. PLC CPU, module setting and cable status. Retry the method. Perform Close once and execute Open again. Exit the program and restart the IBM-PC/AT compatible.
0x0180840C	Connect error	Exit the program and restart the IBM-PC/AT compatible.
0x0180840D	Duplex connect error	Exit the program and restart the IBM-PC/AT compatible.
0x0180840E	Attach failure Attaching of the socket object failed.	Exit the program and restart the IBM-PC/AT compatible.
0x0180840F	Signal line status acquisition failure Acquisition of the COM port signal line status failed.	Exit the program and restart the IBM-PC/AT compatible.
0x01808410	CD signal line OFF The CD signal on the other end of communication is in the OFF status.	Review the system, e.g. PLC CPU, module setting and cable status. Exit the program and restart the IBM-PC/AT compatible.
0x01808411	Password mismatch error	Check the remote password of the property.
0x01808412	TEL Communication Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01808501	USB driver load error Loading of the USB driver failed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01808502	USB driver connect error Connection of the USB driver failed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x01808503	USB driver send error Data send failed.	Review the system, e.g. PLC CPU, module setting and cable status. Make USB setting on the control panel (device manger) of the OS. Retry the method. Exit the program and restart the IBM-PC/AT compatible.

Error Code	Error Definition	Corrective action
0x01808504	USB driver receive error Data receive failed.	Review the system, e.g. PLC CPU, module setting and cable status. Make USB setting on the control panel (device manger) of the OS. Retry the method. Exit the program and restart the IBM-PC/AT compatible.
0x01808505	USB Driver Timeout Error	Recheck the timeout value. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x01808506	USB driver initialisation error Initialisation of the USB driver failed.	Make USB setting on the control panel (device manger) of the OS. Exit the program and restart the IBM-PC/AT compatible.
0x01808507	Other USB error Error related to data send/receive occurred.	Disconnect the cable once, then reconnect. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x02000001	Points Exceeded error The number of points registered in the monitoring server is very high.	Reduce the no. of points registered by the monitor. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x02000002	Shared memory creation error Failed in creating shared memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x02000003	Shared memory access error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x02000004	Memory Secure error Failed in securing memory for the monitoring server.	Close the other applications. Increase the system memory. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x02000005	Device Not Registered error Monitor has not been registered	Register the monitor in the monitoring server. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x02000006	Monitoring Server Startup Error Monitoring Server is not started.	Start the Monitoring Server. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x02000010	Yet to retrieve Device Value error Monitoring is not yet completed	Try to retrieve the value again after waiting for a fixed amount of time. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03000001	Command not Supported. Command is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03000002	Memory Lock Error Failed while locking memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x03000003	Error Securing Memory Failed in securing the memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03000004	DLL read error Failed in reading DLL.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03000005	Error in securing Resources. Failed in securing the resources.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010001	File Creation Error Failed in creating the file.	Check if there is enough space on the hard disk. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010002	File Open Error Failed to open the file.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010003	Buffer Size Error The buffer size specified is either incorrect or not enough.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010004	SIL Sentence formation error SIL sentence formation is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010005	Filename Error The specified filename is too long.	Specify a shorter filename. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010006	File does not exist error. The specified file does not exist.	Check the filename. Check if the file exists or not. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010007	File Structure Error The data structure in the specified file is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010008	File already exists error The specified file already exists.	Check the filename. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010009	File does not exist error The specified file does not exist.	Check the filename. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0301000A	File Deletion Error The specified file could not be deleted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0301000B	Multiple Open Error The specified project has been opened twice.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x0301000C	Filename Error The specified filename is incorrect.	Check the filename. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0301000D	File Read Error Falied in reading the file.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0301000E	File Write Error Failed in writing the file.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0301000F	File Seek Error File seek failed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010010	File Close Error Failed while closing the file.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010011	Folder Creation Error Failed while creating the folder.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010012	File Copy Error Failed while copying the file.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010013	Project Path Error The length of the project path is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010014	Project Type Error The project type is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010015	File Type Error The file type is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010016	Sub-File Type Error The sub-file type is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03010017	Insufficient Disk space error The disk space is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020002	Multiple Open Error Tried to open DBProduct more than once.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020003	Not Opened error DBProduct is not opened.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020004	Extract Error DBProduct is not extracted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020010	Parameter Error The parameters of DBProduct are incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x03020011	Language Error The language parameter is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020012	Error in specifying Maker The maker parameter is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020013	Error in specifying Unit The unit parameter is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020014	SQL Parameter Error SIL, SQL Parameter of DBProduct is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020015	SIL Sentence formation error SIL sentence formation is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020016	Field Key Input Error The field key entered is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020050	Record Data Construction Error. Failed in reconstructing the record data of DBProduct.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020060	Error Retreiving Record Data Failed while retrieving DBProduct record data.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03020061	Last Record error Cannot retrieve the next record since the current record is the last record.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0000	Initialization error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0001	Not Initialized error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0002	Multiple Initialization error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0003	Workspace Initialization Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0004	Database Initialization Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0005	Recordset Initialization Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0006	Error Closing Database	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x03FF0007	Error Closing Recordset	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0008	Database Not Opened error Database is not opened.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0009	Recordset Not Opened error Recordset is not opened.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF000A	Table Initialization Error Failed in initializing TtableInformation table	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF000B	Table Initialization Error Failed in initializing TfieldInformation table	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF000C	Table Initialization Error Failed in initializing TrelationInformation table	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF000D	Table Initialization Error Failed in initializing Tlanguage table	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF000E	Table Initialization Error Failed in initializing Tmaker table	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF000F	Table Initialization Error Failed in initializing TOpenDatabase table	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0010	Field Value Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0011	Field Value Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0012	Exit Error Failed to exit the database.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0100	Moving Record error Failed while moving the record.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0101	Retreiving Record Count Error Failed to retrieve the record count.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FF0110	Retreiving Field Value Error Failed in retrieving the field value.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x03FF0111	Setting Field Value Error Failed in setting the field value.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x03FFFFFF	Other Errors	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04000001	No command error The specified CPU type cannot be used to perform processing.	Check the CPU type set to ActCpuType. Check whether the system configuration is supported or not. Exist the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04000002	Memory lock error Failed in locking memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04000003	Securing Memory Error Failed in securing the memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04000004	Internal server DLL load error Start of the internal server failed.	Check for the deleted or moved installation file of MX Component. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x04000005	Securing Resources Error Failed in securing the resources.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04000006	Error Loading Main Object Failed in reading the file.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04000007	Error Loading Conversion Table Failed in reading table data.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04000100	Incorrect Intermediate Code Size error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010001	Intermediate Code Not Converted error The converted machine code for one command is more than 256 bytes.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010002	Intermediate Code Completion Error Intermediate code area of the code to be converted ended abruptly.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010003	Insufficient Intermediate Code error The intermediate code of the code to be converted was insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010004	Intermediate Code Data Error The intermediate code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04010005	Intermediate Code Structure Error The number of steps in the intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010006	Error in Number of Steps The number of steps in comment intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010007	Insufficient Storage Space for Machine Code error The storage space for machine code is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04010008	Other Errors (Other errors generated during the conversion of Intermediate code to machine code.)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04011001	Machine Code Not Converted error The converted intermediate code for one command is more than 256 bytes.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04011002	Machine Code Completion Error The machine code area to be converted ended abruptly.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04011003	Abnormal Machine Code Could not convert since the machine code to be converted was abnormal.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04011004	Insufficient Storage Space for Intermediate Code error The storage area for intermediate code is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04011005	Other Errors Other errors generated while converting machine code to Intermediate code.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020001	Text Code Not Converted error The converted intermediate code for one command is more than 256 bytes.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020002	No Input error The input list code is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020003	Command Error The command name of list code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020004	Device Error The device name of list code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020005	Device Number Error The device number of the list code to be converted is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020006	Conversion Error The list code to be converted conversion could not be identified.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04020007	Text Data Error The list code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020008	Error in SFC Operation Output The output command of SFC operation is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04020009	SFC Shift Condition Error SFC shift condition command is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0402000A	Error in Statements between lines The statements entered between lines are incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0402000B	P.I Statement Error The P.I statement entered is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0402000C	Note Error The Note entered is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0402000D	Comment Error The comment entered is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0402000E	Other Errors (Other errors generated during the conversion of list to Intermediate code)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04021001	Intermediate Code Not Converted error The converted list code for one command has exceeded 256 bytes.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04021002	Intermediate Code Area Full error Intermediate code area to be converted is full.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04021003	Command Error The command specified by the intermediate code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04021004	Device Error The device specified in the intermediate code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04021005	Intermediate Code Error The structure of intermediate code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04021006	Insufficient List Storage Space error The space for storing the converted list code is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04021007	Other Errors (Other errors generated during the conversion of intermediate code to list)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04030001	Not Converted error The storage space for converted intermediate code is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04030002	Bad Circuit Creation error The character memory circuit is not completed in a sequence.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04030003	Specified Circuit Size Exceeded Specified circuit size is too big.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04030004	Incorrect Return Circuit error There is no consistency before and after the return circuit. The setting for the return circuit is too high.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04030005	Other Errors (Other errors generated while converting from Character Memory to Intermediate Code)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031001	Not Converted error The size (vertical/horizontal) of the character memory specified is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031002	Abnormal Command Code error The command intermediate code to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031003	Bad Circuit Creation error Could not be converted to Sequence Circuit. There is no END command.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031004	Specified Circuit Size exceeded error Specified circuit size is too big.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031005	Fatal Error Fatal Error has occured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031006	Insufficient number of storage blocks error The space to store the converted character memory circuit blocks is not sufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031007	Circuit Block Search Error Data is broken off in the circuit block.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04031008	Other Errors (Other errors generated during the conversion of intermediate code to character memory)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040001	CAD Data Error There is no CAD data to be converted. The CAD data format is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040002	Output Data Error The input CAD data type and the output CAD data type are not matching.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04040003	Library Load Error Failed to load the library.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040004	Storage Space Secure Error The space secured to store the converted data is not sufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040005	No END Command error There is no END command in the CAD data to be converted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040006	Abnormal Command Code There is abnormal command code in the CAD data to be converted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040007	Device No. Error The device number is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040008	Step No. Error The step number is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040009	The specified circuit size exceeded error. 1 circuit block is too big.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404000A	Return Circuit Error The return circuit is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404000B	Bad Circuit Creation error The circuit data is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404000C	SFC Data Error The SFC data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404000D	List Data Error The list data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404000E	Comment Data Error The comment data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404000F	Statement Error The statement data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04040010	Other Errors (Other errors generated during the conversion of CAD code to Intermediate code.)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041001	Intermediate Code Data Error There is no intermediate code to be converted. The format of the intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04041002	CAD Data Type Error The input CAD data type and the output CAD data type are not matching.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041003	Library Error Failed to load the library.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041004	Insufficient Input Data error Data to be converted is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041005	Insufficient Storage Space error There is not enough space to store the CAD data to be converted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041006	No END Command error There is no END command in the CAD data to be converted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041007	Abnormal Command Code There is abnormal command code in the CAD data to be converted.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041008	Device No. Error The device number is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041009	Step No. Error The step number is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404100A	The specified circuit size exceeded error. 1 circuit block is too big.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404100B	Return Circuit Error The return circuit is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404100C	Bad Circuit Creation error The circuit data is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404100D	SFC Data Error The SFC data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404100E	List Data Error The list data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0404100F	Comment Data Error The comment data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04041010	Statement Error The statement data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04041011	Other Errors (Other errors generated during the conversion of Intermediate code to CAD code.)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A0001	Insufficient Intermediate Code Storage Space The space to store the data after conversion is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A0002	The space to store addition SFC information is not sufficient	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A0003	Conversion Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A0004	Non-SFC Program Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A1001	Step Not Used / No Output error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A1002	Step No out of range error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A1003	Step Not Used / No Output error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A1004	Transition No out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A1005	Maximum Number Exceeded error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A1006	Microcontroller Program space Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040A1007	Non-SFC Program Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040B0001	Insufficient Intermediate Code Storage Space. The space to store the data after conversion is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040B0002	Conversion Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040B1001	Failed in creating Step Start position table	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x040B1002	Error Reading Step Information	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040B1003	Step No. Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040B1004	Failed in reading the output of operation/Transition condition intermediate code error.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040B1005	Securing Internal Work Area Failed error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040B1006	Error in setting the maximum value of X direction for character memory	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040B1007	Insufficient Internal Work Area error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040B1008	Stack Overflow, Abnormal Character Memory	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040B1009	Insufficient No of Storage Blocks error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x040B100A	Non-SFC Program Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04050001	Abnormal Character String Specified error Device character string specified is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04050002	Device Points Error Device points are out of range	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04050003	Other Errors (The errors generated during the conversion of the Device Character String to Device Intermediate Code)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04051001	Device Name Error The classification specified for the device intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04051002	Device Name Error The classification specified for the extended specification device intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04051003	Other Errors (The errors generated during the conversion of the Device Intermediate Code to Device Character String)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04052001	Abnormal Character String Specified error Device character string specified is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04052002	Device Points Error Device points are out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04052003	Other Errors (The errors generated during the conversion of the Device Character String to Device Representation Code)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04053001	Device Representation Error The classification specified for the device intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04053002	Device Representation Error The classification specified for the extended specification device intermediate code is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04053003	Device Representation Error The rectification part specified for the device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04053004	Device Representation Error The rectification part specified for the extended device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04053005	Other Errors (The errors generated during the conversion of the Device Representation Code to Device Character String)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04064001	Abnormal Device Intermediate Code error The intermediate code for the device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04064002	Other Errors (Other errors generated during the conversion of the Intermediate code for the Device to Device Name)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04065001	Abnormal Device Name error The classification specified for the intermediate code of the device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04065002	Abnormal Device Name error The classification for the intermediate code of the extended specification device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04065003	Other Errors (Other errors generated during the conversion of the device name to Intermediate code)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04066001	Device Intermediate Code Error The intermediate code for the device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04066002	Other Errors (Other errors generated during the conversion of the device intermediate code to device representation code.)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04067001	Device Representation Error The classification specified for the intermediate code of the device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04067002	Device Representation Error The classification for the intermediate code of the extended specification device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04067003	Device Representation Error The rectification part specified for the device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04067004	Device Representation Error The rectification part specified for the extended device is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04067005	Other Errors (Other errors generated during the conversion of device representation code to the device intermediate code)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04070001	Common Data Conversion Error The input data of the device comment conversion is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04070002	Insufficient Common Data The data to be converted is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04070003	Insufficient Storage Area The area where the conversion data is stored is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04071001	Error in PLC Data Conversion The input data of the device comment conversion is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04071002	Insufficient PLC Data error The data to be converted is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04071003	Insufficient Storage Area The area where the conversion data is stored is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04072001	Open Error Failed in creating conversion object	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04072002	PLC Type Error The specified PLC type does not exist.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04072003	Not Converted error Converted object does not exist	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04072004	Input Data Error The input data is incorrect	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04073001	Program Common Data Conversion Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04073002	Program Common Data Conversion Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04073101	Program PLC Data Conversion Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074001	Common Data Parameter Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074002	Network Parameter Common Data Error The parameter block exists, but the data inside is not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074101	Parameter PLC Data Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074102	Network Parameter PLC Data Error The parameter block exists, but the data inside is not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074103	Offset Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074201	Error in Specifying Network Type The PLC specified does not support the network type.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074202	Parameter Block Number Error The Block corresponding to the parameter block number specified does not exist.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074203	Parameter Block Content Error It is different from the content supported by the specified.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074204	Parameter Block Information Error The specified block number does not exist.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04074205	Default Parameter Block is Abnormal The specified block number does not exist.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074301	Error in Conversion of the Common Parameter Block	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074302	Error in Common Parameter Block No. 1001 The value of the RUN-PAUSE settings existence flag is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074303	Error in Common Parameter Block No. 1003	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074304	Error in Common Parameter Block No. 1008	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074305	Error in Common Parameter Block No. 1100	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074306	Error in Common Parameter Block No. 2001 The device intermediate code specified does not exist.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074307	Error in Common Parameter Block No. 3000	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074308	Error in Common Parameter Block No. 3002	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074309	Error in Common Parameter Block No. 3004 The settings for the annunciator display mode is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407430A	Error in Common Parameter Block No. 4000 I/O Allotment Data is not created.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407430B	Error in Common Parameter Block No. 5000 The specified network is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407430C	Error in Common Parameter Block No. 5001 Valid unit No is not set while accessing other exchange.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407430D	Error in Common Parameter Block No. 5002	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407430E	Error in Common Parameter Block No. 5003	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x0407430F	Error in Common Parameter Block No. 5NM0	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074310	Error in Common Parameter Block No. 5NM1	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074311	Error in Common Parameter Block No. 5NM2	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074312	Error in Common Parameter Block No. 5NM3	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074313	Error in Common Parameter Block No. 6000	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074314	Error in Common Parameter Block No. FF18 Link parameter Capacity is not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074315	Error in Common Parameter Block No. FF25 Calculation circuit check is not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074316	Error in Common Parameter Block No. FF30 Sampling Trace Data is not created.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074317	Error in Common Parameter Block No. FF31 Status latch data is not created.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074318	Error in Common Parameter Block No. FF42 Timer processing points are not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074319	Error in Common Parameter Block No. FF30 Setting value device for specified extended timer does not exist.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407431A	Error in Common Parameter Block No. FF44	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407431B	Error in Common Parameter Block No. FF45	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407431C	Error in Common Parameter Block No. FF60 Terminal Settings are not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407431D	Error in Common Parameter Block No. FF70 User Release area is not set.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04074401	Error in Conversion of PLC Parameter Block	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074402	Error in PLC Parameter Block No.1001	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074403	Error in PLC Parameter Block No.1003	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074404	Error in PLC Parameter Block No.1008	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074405	Error in PLC Parameter Block No.1100	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074406	Error in PLC Parameter Block No.2001	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074407	Error in PLC Parameter Block No.3000	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074408	Error in PLC Parameter Block No.3002	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074409	Error in PLC Parameter Block No.3004	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407440A	Error in PLC Parameter Block No.4000	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407440B	Error in PLC Parameter Block No.5000 The specified network type is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407440C	Error in PLC Parameter Block No.5001	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407440D	Error in PLC Parameter Block No.5002	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407440E	Error in PLC Parameter Block No.5003	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407440F	Error in PLC Parameter Block No. 5NM0 The specified network type is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04074410	Error in PLC Parameter Block No. 5NM1	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074411	Error in PLC Parameter Block No. 5NM2 The specified network type is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074412	Error in PLC Parameter Block No. 5NM3	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074413	Error in PLC Parameter Block No. 6000	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074414	Error in PLC Parameter Block No. FF18	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074415	Error in PLC Parameter Block No. FF25	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074416	Error in PLC Parameter Block No. FF30	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074417	Error in PLC Parameter Block No. FF31	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074418	Error in PLC Parameter Block No. FF42	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04074419	Error in PLC Parameter Block No. FF43	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407441A	Error in PLC Parameter Block No. FF44	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407441B	Error in PLC Parameter Block No. FF45	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407441C	Error in PLC Parameter Block No. FF60	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407441D	Error in PLC Parameter Block No. FF70	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04075001	Common Data Conversion Error Failed while converting the device memory settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04075002	Common Data Conversion Error Failed while converting the device memory data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04075003	Common Data Conversion Error Device memory data portion did not exist.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04075101	PLC Data Conversion Error Failed while converting the settings portion of the device memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04075102	PLC Data Conversion Error Failed while converting the data portion of the device memory.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04076001	Common Data Conversion Error Failed while converting the settings portion of the device comments.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04076002	Common Data Conversion Error Failed while converting the data portion of the device comments.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04076101	PLC Data Conversion Error Failed while converting the settings portion of the device comments.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04076102	PLC Data Conversion Error Failed while converting the settings portion of the device comments.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04077001	Common Data Conversion Error Failed during the conversion of sampling trace settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04077002	Common Data Conversion Error Failed during the conversion of sampling trace data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04077101	PLC Data Conversion Error Failed during the conversion of sampling trace settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04077102	PLC Data Conversion Error Failed during the conversion of sampling trace data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04078001	Common Data Conversion Error Failed in the conversion of the status latch settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04078002	Common Data Conversion Error Failed in the conversion of the status latch data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04078101	PLC Data Conversion Error Failed in the conversion of the status latch settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04078102	PLC Data Conversion Error Failed in the conversion of the status latch data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04079101	Failure history PLC Data Conversion error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407A101	File List PLC Data Conversion Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407B101	Error Information PLC Data Conversion Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C001	Error in Conversion of Indirect Address to Device Name The device name storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C002	Error in Conversion of Device Name to Indirect Address Indirect Address storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C003	Error in Conversion of Indirect Address to Device Representation The device representation storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C004	Error in Conversion of Device Representation to Indirect Address Indirect Address storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C005	Error in Conversion of Indirect Address to Device Character String Device Character String storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C006	Error in Conversion of Device Character String to Indirect Address Indirect Address storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C007	Error in Conversion of Intermediate Code to Device Name Device Name storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C008	Error in Conversion of Device Name to Intermediate Code Intermediate Code storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C009	Error in Conversion of Intermediate Code to Device representation Device Representation storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00A	Error in Conversion of Device Representation to Intermediate Code Intermediate Code storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x0407C00B	Error in Conversion of Intermediate Code to Indirect Address Indirect Address storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00C	Error in Conversion of Indirect Address to Intermediate Code Intermediate Code storage area is not secured.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00D	PLC Type Error The specified PLC type is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00E	Device Character String Error The specified device is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C00F	Device Character String Error The specified device character string, type is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C010	Device Error The specified device is not supported by the specified PLC.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C011	PLC Type Error The specified PLC is not supported.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407C012	Device out of Range Error For AnA system, a device out of AnA system range was specified.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407D001	Common Data Conversion Error Error in Conversion of SFC trace condition settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407D002	Common Data Conversion Error Error in Conversion of SFC trace condition data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407D101	PLC Data Conversion Error Error in Conversion of SFC trace condition settings portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x0407D102	PLC Data Conversion Error Error in Conversion of SFC trace condition data portion.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04080001	Intermediate Code classification out of range error The intermediate code classification specified is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04080002	Extended specification Intermediate Code classification out of range error The extended specification intermediate code specified is out of range.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x04080003	Device Points check absent error The device does not check the device points.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090001	GPP Project Error The specified PLC type and GPP project type are not matching.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090002	File Type Error The specified GPP project type and file type are not matching.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090010	Insufficient GPP Data to be converted There is no data to be converted. The data size specified is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090011	Insufficient Storage Space for Converted Data The space for storing converted data is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090012	Error in GPP Data to be converted The GPP data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090110	Insufficient Data to be converted error There is no data to be converted. The data size specified is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090111	Insufficient Storage Space for Converted Data error. The storage space for converted data is insufficient.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04090112	Error in data to be converted The data to be converted is incorrect.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x04FFFFFF	Other Errors	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000001	No Command error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000002	Start of communication DLL of MX Component failed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000003	Open failed. (DiskDrive)	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000004	Duplex open error	Exit the program and restart the IBM-PC/AT compatible.
0x10000005	File Access Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000006	Incorrect Folder Name error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x10000007	File Access Denied error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000008	Disk Full Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000009	File Delete Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000000A	Incorrect File Name error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000000C	Execution failed since another application or thread is making a request.	Execute again after some time. Perform programming according to the multithread rules of COM and ActiveX. Exit the program and restart the IBM-PC/AT compatible.
0x1000000D	Folder Creation Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000000E	Folder/ File Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000000F	Offset Address Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000010	Request Cancel Cancel Process has occurred.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000011	Memory securing error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0x10000012	Open not yet executed	Exit the program and restart the IBM-PC/AT compatible.
0x10000013	Attach Not Executed error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000014	Object Invalid error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000015	Request Cancel Failed error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000016	Failed in Reading Status error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000017	The specified size (number of devices) is unauthorised.	Check the number of points specified in the method. Exit the program and restart the IBM-PC/AT compatible.
0x10000018	There is no registered device.	Exit the program and restart the IBM-PC/AT compatible.

Error Code	Error Definition	Corrective action
0x10000019	Dataset Not Executed	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000001A	Read Not Executed error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000001B	Incorrect Create Flag error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000001C	Operation Over Access	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000001D	Redundant Device error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000001E	Registry search failed.	Exit the program and restart the IBM-PC/AT compatible. Exit other programs and secure free memory area. Reinstall MX Component.
0x1000001F	File Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000020	Device Memory Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000021	Program Range Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000022	TEL Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000023	TEL Access Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000024	Cancel Flag Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000030	Multiple Device Registration Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000031	Device Not Registered error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000032	Specified device error	Review the specified device data. Exit the program and restart the IBM-PC/AT compatible. Exit other programs and secure free memory area.

Error Code	Error Definition	Corrective action
0x10000033	Specified device range error	Review the specified device data. Exit the program and restart the IBM-PC/AT compatible. Exit other programs and secure free memory area.
0x10000034	File Write Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000040	Server start failed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000041	Server Stop Error Failed while stopping the server	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000042	Server Started Twice error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000043	Server Not Started error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000044	Resource Timeout Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000045	Server Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000046	Failed to Access Server error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000047	Server Already Accessed error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000048	Failed in Simulator Startup	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x10000049	Failed in exiting Simulator	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000004A	Simulator Not Started error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000004B	Simulator Type Error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000004C	Simulator Not Supported error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0x1000004D	Simulator Started Twice error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.

Error Code	Error Definition	Corrective action
0x1000004E	Shared Memory Not Started error	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0xF0000001	No-license error The license is not given to the IBM-PC/AT compatible.	Using the license FD, give the license to the IBM-PC/AT compatible.
0xF0000002	Set data read error Reading of the set data of the logical station number failed.	Specify the correct logical station number. Set the logical station number on the communication settings utility.
0xF0000003	Already open error The Open method was executed in the open status.	When changing the communication target CPU, execute the Open method after performing Close.
0xF0000004	Not yet open error The Open method is not yet executed.	After executing the Open method, execute the corresponding method.
0xF0000005	Initialisation error Initialisation of the object possessed internally in MX Component failed.	Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component.
0xF0000006	Memory securing error Securing of MX Component internal memory failed.	Exit the program and restart the IBM-PC/AT compatible. Exit other programs and secure free memory area.
0xF0000007	Function non-support error The method does not support.	Can not use because the corresponding method is not supported.
0xF1000001	Character code conversion error Character code conversion (UNICODE ASCII code or ASCII code UNICODE) failed.	Check the character string specified in the method. The ASCII character string acquired from the PLC CPU is abnormal. Review the system, e.g. PLC CPU, module setting and cable status. Exit the program and restart the IBM-PC/AT compatible. Retry the GetCpuType method.
0xF1000002	First I/O number error The first I/O number specified is an unauthorised value. A matching first I/O number does not exist.	Check the value of the first I/O number specified in the method. Using the GPP function, check the PLC CPU parameters (I/O assignment).
0xF1000003	Buffer address error The buffer address specified is an unauthorised value. The buffer address is outside the range.	Check the value of the buffer address specified in the method.
0xF1000004	Buffer read size error As a result of buffer read, the specified size could not be acquired.	Perform reopen processing. Review the system, e.g. PLC CPU, module setting and cable status. Retry. Exit the program.
0xF1000005	Size error The size specified in the read/write method is abnormal. The read/write first number plus size exceeds the device or buffer area.	Check the size specified in the method.

Error Code	Error Definition	Corrective action
0xF1000006	Operation error The operation specified for remote operation is an abnormal value.	Check the operation specifying value specified in the method.
0xF1000007	Clock data error The clock data is abnormal.	Check the clock data specified in the method. Set the correct clock data to the clock data of the PLC CPU.
0xF1000008	Monitored device registration count excess The number of device points registered in the EntryDeviceStatus method was 0 or less. The number of device points registered in the EntryDeviceStatus method was more than 20.	Register the device points between 1 and 20 in the EntryDeviceStaus method.
0xF1000009	Monitored device data registration error	After making deregistration in the FreeDeviceStatus method, execute the EntryDeviceStatus method again.
0xF1000010	Device status monitor processing failed to start. Device status monitor processing failed to end.	Start/end the device status monitor processing again in the EntryDeviceStatus method.
0xF1000011	The VARIANT argument data type is wrong.	Reexamine the data type specified for the VARIANT argument. • Check whether the array variable size is large enough. • Check whether the data type specified in the corresponding method has been set.
0xF1000012	The device status monitoring time interval is a value outside the range 1 second to 1 hour (1 to 3600).	Specify the device status monitoring time between 1 and 3600.
0xF1000013	Already Connected error. Connect was executed again after it was executed for the same object.	Execute the Connect method after executing the Disconnect method.
0xF1000014	Invalid Telephone Number error. Characters other than “0123456789-*#” that are allowed for telephone numbers are included.	Rectify the Telephone number and try to Connect again.
0xF1000015	Exclusive Control Failure error. There was failure in the exclusive control process while executing the Connect and Disconnect method.	In case if Connect/Disconnect method is being executed for any other object, execute the failed method (Connect/Disconnect) again after the completion of the Connect/ Disconnect method of that object. If the Connect/Disconnect process is in progress only for the self object, perform the following. Exit the program. Restart the IBM-PC/AT compatible. Reinstall MX Component.
0xF1000016	While connecting to the telephone line error. The telephone line is connected to some other application, other than the one using MXComponent.	Try Connecting again after disconnecting the application that is using the telephone line.

Error Code	Error Definition	Corrective action
0xF1000017	Telephone line not connected error. Telephone line is not connected. Connect was executed and the telephone line was connected, but it got disconnected due to some reason.	(When Connect method has failed) Execute Connect again after executing Disconnect method. (When method other than Connect has failed) Execute Disconnect method, Execute Connect and connect to the telephone line. After connecting, execute the method that failed once again.
0xF1000018	No Telephone number error. The telephone No. is not set. The telephone No. or call back No. is not set,if the connection method is Automatic (when specifying the call back No.), call back connection (when specifying the number), or call back Request(when specifying the number).	In case of program settings type,set the telephone No. to the property ActDialNumber. (Set the telephone No. to the properties ActDialNumber and ActCallbackNumber, if the connection method is automatic (when specifying the call back No.), call back connection (when specifying the telephone No.), or call back request (when specifying the number).) In case of utility settings type,set the telephone No. using the wizard. (Set the telephone No. and call back No. , if the connection method is automatic (when specifying the call back No.), call back connection (when specifying the telephone No.), or call back request (when specifying the number).)
0xF1000019	Not Closed error. Disconnect was executed while in Open state.	Try Disconnect again after executing Close.
0xF100001A	Target telephone line connection mismatch error. Connect was tried for a different telephone number using the port which is already connected to a telephone line. (When the method of connection is a callback reception, it is considered that the telephone number is different from methods of connection in other than the callback reception.)	If you want to connect to a different telephone number, Execute Disconnect with respect to the telephone line that is already connected and executes Connect after it gets disconnected. In case of connecting the telephone line with callback reception, use the Connect of the connection method that is executed at the earliest in the same port as callback reception.
0xF100001B	Control Type Mismatch error. An object, whose control type is different from that of the object already connected to the telephone line, tried to Connect.	Execute Disconnect for the object currently connected to the telephone line and execute Connect once again after the telephone line gets disconnected.
0xF100001C	Not Disconnected error. When Disconnect method is executed for the object connected to the telephone line, it is found that other objects are in connected state.	Execute Disconnect for all the Connected objects. Try Disconnect again for the object that actually performed the telephone line connection.
0xF100001D	Not Connected error. Open was executed before Connect Or, Disconnect was executed.	Execute Open again after executing Connect. Or execute Disconnect again after executing Connect.

Error Code	Error Definition	Corrective action
0xF100001E	Fatal Error.	Exit the program. Restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0xF100001F	Open time setting error There is some difference in telephone number and the port number settings used during Connect and Open.There is some error in Connect way.	Check the telephone numebr and the portnumebr. Check the Connect way.
0xF2000002	There is an error response from the target telephone. Causes can be the following. * Communication error has occurred.	Check the value of the properties set in case of program settings type and check the contents of the detailed settings that were set using the wizard in case of utility settings type.
0xF2000003	Invalid data was received. Causes can be the following. * Incorrect data packet received due to noise. * Communicated with a device other than A(Q)6TEL/C24.	Retry. Check the communication device used at the other end.
0xF2000004	There is no response from the modem. Causes can be the following. Abnormality in the modem. Telephone number setting mistake.	Check the status of the modem. Check the telephone number. If the problem persists even after checking the above points, change the value of the properties set (Properties such as ActConnectionCDWaitTime etc. , which set the timings) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.
0xF2000005	There are chances that the line is not disconnected.	Check the line.
0xF2000006	The PC modem did not receive the AT command. Causes can be the following. * Invalid AT command was specified. * Abnormality in the modem.	Check the contents of the AT command. Check the status of the modem.
0xF2000007	Modem did not respond properly to the standard escape command.	Check the modem. Confirm whether the value of the time-out is too small. (5000ms or more is recommended.)
0xF2000009	Modem does not respond properly to the line Disconnect command.	Check the modem.
0xF200000A	Target did not receive the signal. * The Receive settings of the modem at the other end may be incorrect. * The other end may be busy. * The telephone number may be incorrect.	Check the Receive settings of the modem at the other end. Check if the other end is busy. Check the telephone number.
0xF200000B	Timeout reached for the call back receive waiting time.	Increase the call back receive waiting time ActCallbackReveptionWaitingTimeOut and execute connect again.

Error Code	Error Definition	Corrective action
0xF200000C	Password of A6TEL, Q6TEL, QJ71C24 units could not be resolved.	Set the password to ActPassword property and execute the failed method again.
0xF2010001	The callback line disconnect wait time is other than 0 -180 Seconds. The callback execution delay time is other than 0 -1800 Seconds. The telephone number is more than 62 characters.	Check whether the callback line disconnect wait time is with in 0 – 180 Seconds. Check whether the callback execution delay time is with in 0 - 1800 Seconds. Check whether the telephone number is less than or equal to 62 characters. Exit the program and restart the IBM-PC/AT compatible. Reinstall MX Component. Inform the telephone center of our company.
0xF2010002	QJ71C24 did not receive the specified connection method. Causes can be the following. * Incorrect Connection method. * Incorrect telephone number for Call back.	Check whether the settings of QJ71C24 and the MXComponent are matching.
0xF2010003	QJ71C24 does not permit the automatic connection (during fixed Call back or when the number is specified.)	Check the settings of QJ71C24.
0xF2100005	There are chances that the line is not disconnected.	If there is no problem with the modem or the telephone line, change the value of the properties set (Properties like ActConnectionCDWaitTime etc. , which set the timings) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.
0xF2100008	There was no response from the modem for the data sent from the PC.	Change the value of the properties set (Properties such as ActConnectionCDWaitTime etc. , which set the timings) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.
0xF2100006	Modem did not receive the startup command AT.	Change the settings of the property ActATCommand. in case of program settings type and change the command AT that were set using the wizard in case of utility settings type.
0xF2100007	The PC modem does not respond to the Escape command.	If there is no problem with the modem or the telephone line, change the value of the properties set (Properties like ActConnectionCDWaitTime etc. , which set the timings) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.

Error Code	Error Definition	Corrective action
0xF21000＊＊	There is no response from the modem. Causes can be the following. Abnormality in the modem. Telephone number setting mistake.	Check the status of the modem. Check the telephone number. If the problem persists even after checking the above points, change the value of the properties set (Properties such as ActConnectionCDWaitTime etc. , which set the timings) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.
0xF21001＊＊	There is no response from A(Q)6TEL/C24. Causes can be the following. Setting mistake w.r.t. A(Q)6TEL/C24 A(Q)6TEL/C24 got connected to a non-existant modem.	Re-examine the settings of A(Q)6TEL/C24. Confirm whether the modem exists. If the problem persists even after checking the above points, change the value of the properties set (Properties such as ActConnectionCDWaitTime etc. , which set the timings) in case of program settings type and change the contents of the detailed settings that were set using the wizard in case of utility settings type.
0xF202＊＊＊＊	There was a communication failure. Following causes can be considered depending on the status. Communication time over (Break in cable, the specified port not supported, mistake in specifying the COM port) Modem’s power is switched OFF.	Check whether the cable is broken. Check whether the specified port is not supported. Check whether correct COM port is set. Check if the modem power is switched OFF. For detailed troubleshooting, please refer to the details of the error code got after replacing the first four digits with “0x0180”. eg In case of “0xF202480B”, please refer to the code “0x0180480B”.

6.2 Error Codes Returned by the CPUs, Modules and Network Boards

This section explains the error codes returned by the CPUs, modules and network boards.

POINT
Error codes may not be returned as "(1) Error code list" describes. At the beginning, confirm "(2) Precautions for confirming error code", and then refer to "(1) Error code list".

(1) Error code list

If the CPU, module or network board has detected an error, any of the error codes indicated in the following table is returned.
The two upper bytes denote Error detection module, and the two lower bytes denote the error code returned by Error detection module.
For detail of the error, refer to the manual of CPU, module or network board corresponding to the error code.

Error Code	Error detection module
0x01010000 to 0x0101FFFF ＊1＊2	QCPU (A mode), ACPU, motion controller CPU
0x01020000 to 0x0102FFFF ＊1	QnACPU
0x01030000 to 0x0103FFFF ＊1	C24
0x01040000 to 0x0104FFFF ＊1	QC24(N)
0x01050000 to 0x0105FFFF ＊1	E71
0x01060000 to 0x0106FFFF ＊1	QE71
0x01070000 to 0x0107FFFF ＊1	CC-Link IE Controller Network board, MELSECNET/H board, MELSECNET/10 board, CC-Link board, CPU board
0x01090000 to 0x0109FFFF ＊1	FXCPU
0x010A0000 to 0x010AFFFF ＊1	QCPU (Q mode)
0x010B0000 to 0x010BFFFF ＊1	Q series-compatible C24
0x010C0000 to 0x010CFFFF ＊1	Q series-compatible E71
0x010D0000 to 0x010DFFFF ＊1	PC CPU module
0x010F0000 to 0x010FFFFF ＊1	GOT

＊1: Refer to "Point"

＊2: The error codes are also indicated in "6.1 Error Codes Returned by the ACT Controls".

(2) Precautions for confirming error code

Precautions for confirming the error codes returned by CPU, module and network board are described below.

(a) Property setting error

If the used system configuration does not match the preset property values, the two upper bytes do not indicate the correct error detection module.
For example, when the property values of the ACPU have been set to ActCpuType as those of the QCPU (Q mode), the two upper bytes may indicate that Error detection module is the ACPU.
In such a case, make communication again after checking the system configuration and all preset property values.
When the ActEasyIF or ActMLEasyIF control is used, check the settings of the communication setting utility.

(b) When AJ71E71 or AJ71QE71 is used

If the two lower-byte error code that occurred during E71 or QE71 communication is not given in the E71 or QE71 manual, check whether the DIP switch (SW2) at the front of the E71 or QE71 module matches the value set to the ActPacketType property.
If the DIP switch setting is incorrect, the packet format (ASCII/binary) is different, disabling correct recognition of the error code returned from the module.

(c) At access to another station

At access to another station, the error code of the relayed module used (CC-Link IE Controller Network, MELSECNET/H, MELSECNET/10, CC-Link, computer link, Ethernet module) may enter the two lower bytes.
In such a case, the two upper bytes that indicate Error detection module may not always match the faulty module. Therefore, after checking the system configuration, also check the manuals of the used CPU, relayed network module and network board.

6.3 HRESULT Type Error Codes

Normally, the ActiveX control returns the HRESULT type returned value. So does the ACT control.
When the custom interface is used, the returned value is equivalent to the returned value of method API.
When the dispatch interface is used, the HRESULT type returned value can be acquired by performing exception processing.
The following table indicates the HRESULT type returned values of the ACT controls.

Returned Value	Termination Status	Description
S_OK	Normal termination	Function processing terminated normally.
S_FALSE	Normal termination	Function processing (as ActiveX control) terminated normally, but operation (access to PLC) failed.
E_POINTER	Abnormal termination	The pointer passed to the function is abnormal.
E_OUTOFMEMORY	Abnormal termination	Memory securing or object creation failed.
E_FAIL	Abnormal termination	An indefinite error occurred.

POINT

If exception processing for acquiring the HRESULT type returned value has not been performed, the dispatch interface shows the error dialog box on the OS level when E_POINTER (E_XXXXX defined returned value) or the like is returned from the ACT control.

APPENDICES

Appendix 1 Connection System of the Callback Function

This section describes the connection system of the callback function for modem communication using the Q Series Corresponding C24.

The callback function enables access from MX Component to the PLC CPU by line reconnection (callback) made from the Q Series Corresponding C24 after line connection from MX Component.
For (1) to (3), telephone charges are born on the personal computer side.
For (4) to (8), telephone charges are born on the Q Series Corresponding C24 side.
Refer to the following manual for details of the callback function.
• Q Corresponding Serial Communication Module User's Manual (Application)

(1) Auto line connect

Select this when the callback function has not been set to the Q Series Corresponding C24.

(2) Auto line connect (Callback fixation)

Connects the line without using the callback function when the callback function has been set to the Q Series Corresponding C24.
It is allowed to connect to the only PC with telephone number registered in the buffer memory (2101H) of Q Series Corresponding C24.

(3) Auto line connect (Callback number specification)

Connects the line without using the callback function when the callback function has been set to the Q Series Corresponding C24.
It is allowed to connect to only the PC with telephone number specified by MX Component.

(4) Callback connect (Fixation)

Callbacks only the personal computer with telephone number registered in the buffer memory (2101H) of the Q Series Corresponding C24.

(5) Callback connect (Number specification)

Callbacks only the personal computer with telephone number specified by MX Component.

(6) Callback request (Fixation)

Issues a callback request from any PC to callback the PCs with telephone numbers registered in the buffer memory (2101H) of Q Series Corresponding C24. (The PC that has issued the callback request will not be callbacked.)

(7) Callback request (Number specification)

Issues a callback request from any PC to callback the PCs with telephone numbers specified by MX Component. (The PC that has issued the callback request will not be callbacked.)

(8) Callback reception waiting

It is possible to connect the callback-target PC to the line during callback request (number fixation, number specification) by setting the PC to "Callback reception waiting".

APP - 2

Appendix 2 Programming Example for Checking the Word Device Status

This section explains the programming example for EntryDeviceStatus to check word devices for negative values.

(1) When using Visual Basic® 6.0

The following programming example checks D0 for -10, D1 for 0 and D2 for 10 using Visual Basic® 6.0.

```
Dim szDevice As String          ´Checked device list
Dim lInputData(2) As Long       ´Set value
Dim lEntryData(2) As Long       ´Value set to argument of EntryDeviceStatus
Dim lReturnCode(2) As Long      ´Returned value to EntryDeviceStatus
Dim lCount As Long              ´Loop counter

´Sets D0, D1 and D2 to the checked device list.
szDevice = "D0" + vbLf + "D1" + vbLf + "D2"

´Sets the checked device value "-10" for D0.
lInputData(0) = -10
´Sets the checked device value "0" for D1.
lInputData(1) = 0
´Sets the checked device value "10" for D2.
lInputData(2) = 10

´If the set value is negative, stores "0"s into the upper 2 bytes
´for conversion into the value to be set to EntryDeviceStatus.
´Loops through the number of device points.
For lCount = 0 To 2
        ´If the set value is negative
        If lInputData(lCount) < 0 Then
                ´Masks with 65535 (0000FFFF[hex]) to store
                ´"0"s into upper 2 bytes.
                lEntryData(lCount) = lInputData(lCount) And 65535
        Else
        ´If the set value is positive, assigns the value as-is to lEntryData.
                lEntryData(lCount) = lInputData(lCount)
        End If
Next
´Executes EntryDeviceStatus.
lReturnCode = ActLLT1.EntryDeviceStatus(szDevice, 3, 5, lEntryData(0))
```

(To next page)

```
<When ldata = -1>
Private Sub ActLLT1_OnDeviceStatus(ByVal szDevice As String, ByVal lData As Long, ByVal lReturnCode As
Long)
        Dim lCheckData As Long          ´Value set to EntryDeviceStatus
                                        ´ (value before 0s are stored into the upper 2 bytes)

        ´If the device value whose condition was established is a WORD type negative value
        ´ (greater than 32767 (7FFF[Hex])
        If lData > 32767 Then
                ´Since "0"s are stored in the upper 2 bytes, the device value is ORed
                ´with FFFF0000[Hex] to convert it into a LONG type negative value.
                lCheckData = lData Or &HFFFF0000
        Else
        ´If the device value whose condition was established is positive,
        ´assigns the value as-is to lCheckData.
                lCheckData = lData
        End If
End Sub
```

(2) When using Visual C++® 6.0

The following programming example checks D0 for -10, D1 for 0 and D2 for 10 using Visual C++® 6.0.

```
CString szDevice;               //Checked device list
LONG lInputData[3];             //Set value
LONG lEntryData[3];             //Value set to argument of EntryDeviceStatus
LONG lReturnCode;               //Returned value to EntryDeviceStatus
LONG lCount;                    //Loop counter

//Sets D0, D1 and D2 to the checked device list.
szDevice = "D0\nD1\nD2";

//Sets the checked device value "-10" for D0.
lInputData[0] = -10;
//Sets the checked device value "0" for D1.
lInputData[1] = 0;
//Sets the checked device value "10" for D2.
lInputData[2] = 10;

//If the set value is negative, stores "0"s into the upper 2 bytes
//for conversion into the value to be set to EntryDeviceStatus.
//Loops through the number of device points.
for(lCount = 0;lCount<=2; lCount++) {
        //If the set value is negative
        if (lInputData[lCount] < 0 ){
                //Masks with 65535 (0000FFFF[hex]) to store
                //"0"s into upper 2 bytes.
                lEntryData[lCount] = lInputData[lCount] & 0x0000FFFF;
        }else{
        //If the set value is positive, assigns the value as-is to lEntryData.
                lEntryData[lCount] = lInputData[lCount];
        }
}
//Executes EntryDeviceStatus.
lReturnCode = m_ActLLT.EntryDeviceStatus(szDevice,3,5,lEntryData);
```

(To next page)

```
<When ldata = -1>
void CVCTestDlg::OnOnDeviceStatusActIlt1(LPCTSTR szDevice, long lData, long lReturnCode)
{
	LONG lCheckData;	//Value set to EntryDeviceStatus
				//(value before 0s are stored into the upper 2 bytes)

	//If the device value whose condition was established is a WORD type negative value
	//(greater than 32767 (7FFF[Hex])
	if(lData > 0x7FFF){
		//Since "0"s are stored in the upper 2 bytes, the device value is ORed
		//with FFFF0000[Hex] to convert it into a LONG type negative value.
		lCheckData = lData | 0xFFFF0000;
	}else{
	//If the device value whose condition was established is positive,
	//assigns the value as-is to lCheckData.
		lCheckData = lData;
	}
}
```

Appendix 3 Time-Out Periods

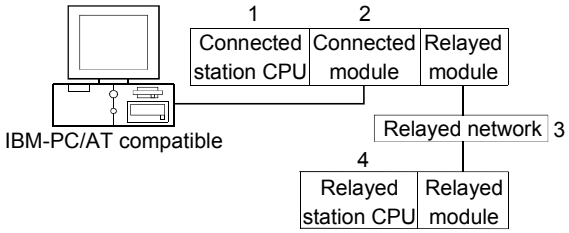
On MX Component, a time-out may occur for the period different from the value set to the ActTimeOut property within the ACT Control.
This section explains the time-out periods in various status.

Appendix 3.1 When retries are to be made at occurrence of time-out error

If a time-out error occurs during communication, time-out processing may be repeated a maximum of three times within the ACT control.
At that time, it will take a maximum of three times longer period than the set time-out value until a time-out occurs.
The following shows a communication path to be retried at a time-out of error occurrence.

(1) Computer link module communication

(a) Configuration



(b) Target/non-target communication path

The following table indicates the communication paths to be retried at a time-out error occurrence.
All the connected station CPUs can be the targets.
Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

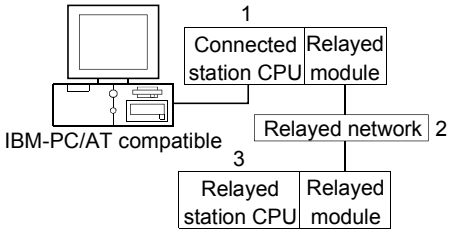
Connected station		3. Relayed network	4. Relayed station CPU						
1. CPU	2. Connected module (Usable control name)		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QCPU (Q mode)	Q series-compatible C24 (ActQJ71C24, ActMLQJ71C24)	CC-Link IE Controller Network	○	○	×	×	×	×	×
		MELSECNET/H	○	○	×	×	×	×	×
		MELSECNET/10	○	○	○	○	○	×	○
		MELSECNET(II)	×	×	×	×	×	×	×
		Ethernet	○	○	×	○	×	×	×
		Computer link	○	×	×	○	×	×	×
		CC-Link	○	×	○	○	○	○	○
		Multidrop (Independent mode)	○	×	×	○	×	×	×
		Multidrop (Synchronous mode)	○	×	×	×	×	×	×

(To next page)

Connected station		3. Relayed network	4. Relayed station CPU						
1. CPU	2. Connected module (Usable control name)		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QnACPU	QC24(N) (ActAJ71QC24, ActMLAJ71QC24)	CC-Link IE Controller Network	×	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×	×
		MELSECNET/10	×	×	×	○	×	×	×
		MELSECNET(II)	×	×	×	○	×	×	×
		Ethernet	×	×	×	○	×	×	×
		Computer link	×	×	×	○	×	×	×
		CC-Link	×	×	×	○	×	×	×
		Multidrop (Independent mode)	×	×	×	○	×	×	×
		Multidrop (Synchronous mode)	×	×	×	○	×	×	×
QCPU (A mode), QnACPU, ACPU, Motion controller CPU	UC24 (ActAJ71UC24, ActMLAJ71UC24)	CC-Link IE Controller Network	×	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×	×
		MELSECNET/10	×	×	○	○	○	×	○
		MELSECNET(II)	×	×	○	○	○	×	○
		Ethernet	×	×	×	×	×	×	×
		Computer link	×	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×	×
		Multidrop	×	×	○	○	○	×	○
QCPU (A mode), QnACPU, ACPU, Motion controller CPU	C24 (ActAJ71C24, ActMLAJ71C24)	CC-Link IE Controller Network	×	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×	×
		MELSECNET/10	×	×	○	○	○	×	○
		MELSECNET(II)	×	×	○	○	○	×	○
		Ethernet	×	×	×	×	×	×	×
		Computer link	×	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×	×
		Multidrop	×	×	○	○	○	×	○
FXCPU	FX extended port (ActFX485BD, ActMLFX485BD)	CC-Link IE Controller Network	×	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×	×
		MELSECNET/10	×	×	×	×	×	×	×
		MELSECNET(II)	×	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×	×
		Computer link	×	×	×	×	×	○	×
		CC-Link	×	×	×	×	×	×	×
		Multidrop	×	×	×	×	×	○	×

(2) CPU COM communication

(a) Configuration



(b) Target/non-target communication path

The following table indicates the communication paths to be retried at a time-out error occurrence.

All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

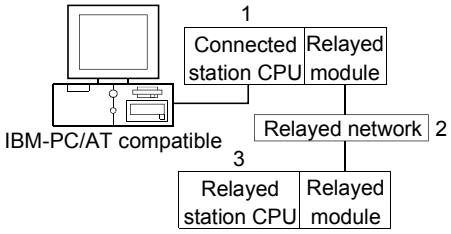
1. Connected module (Usable control name)	2. Relayed network	3. Relayed station CPU						
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QCPU (Q mode) (ActQCPUQ, ActMLQCPUQ)	CC-Link IE Controller Network	○	○	×	×	×	×	×
	MELSECNET/H	○	○	×	×	×	×	×
	MELSECNET/10	○	○	○	○	○	×	○
	MELSECNET(II)	×	×	×	×	×	×	×
	Ethernet	○	○	×	○	×	×	×
	Computer link	○	×	×	○	×	×	×
	CC-Link	○	×	○	○	○	○	○
QCPU (A mode) (ActQCPUA, ActMLQCPUA)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	○	×	○	×	○
	MELSECNET(II)	×	×	○	×	○	×	○
	Ethernet	×	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×	×
QnACPU (ActQnACPU, ActMLQnACPU)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	×	○	×	×	×
	MELSECNET(II)	×	×	×	○	×	×	×
	Ethernet	×	×	×	○	×	×	×
	Computer link	×	×	×	○	×	×	×
	CC-Link	×	×	×	×	×	×	×

(To next page)

1. Connected module (Usable control name)	2. Relayed network	3. Relayed station CPU						
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
ACPU, Motion controller CPU (ActACPU, ActMLACPU)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	○	×	○	×	○
	MELSECNET(II)	×	×	○	×	○	×	○
	Ethernet	×	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×	×
FXCPU (ActFXCPU, ActMLFXCPU)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	×	×	×	×	×
	MELSECNET(II)	×	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×	×

(3) CPU USB communication

(a) Configuration



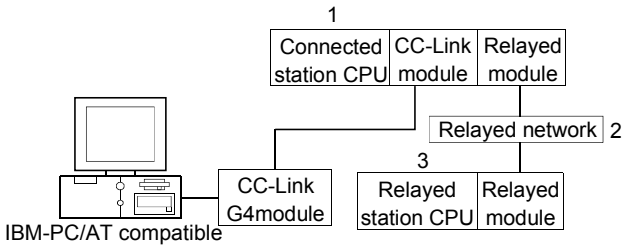
(b) Target/non-target communication path

The following table indicates the communication paths to be retried at a time-out error occurrence.
All the connected station CPUs all become targets.
Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

1. Connected module (Usable control name)	2. Relayed network	3. Relayed station CPU						
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QCPU (Q mode) (ActQCPUQUSB, ActMLQCPUQUSB)	CC-Link IE Controller Network	○	○	×	×	×	×	×
	MELSECNET/H	○	○	×	×	×	×	×
	MELSECNET/10	○	○	○	○	○	×	○
	MELSECNET(II)	×	×	×	×	×	×	×
	Ethernet	○	○	×	○	×	×	×
	Computer link	○	×	×	○	×	×	×
	CC-Link	○	×	○	○	○	×	○
FXCPU (ActFXCPUUSB, ActMLFXCPUUSB)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	×	×	×	×	×
	MELSECNET(II)	×	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×	×

(4) CC-Link G4 communication

(a) Configuration



(b) Target/non-target communication path

The following table indicates the communication paths to be retried at a time-out error occurrence.

All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

1) When CC-Link G4-S3 module is in Q mode

1. Connected module (Usable control name)	2. Relayed network	3. Relayed station CPU						
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QCPU (Q mode) (ActCCG4Q, ActMLCCG4Q)	CC-Link IE Controller Network	○	○	×	×	×	×	×
	MELSECNET/H	○	○	×	×	×	×	×
	MELSECNET/10	○	○	○	○	○	×	○
	MELSECNET(II)	×	×	×	×	×	×	×
	Ethernet	○	○	×	○	×	×	×
	Computer link	○	×	×	○	×	×	×
	CC-Link	○	×	○	○	○	×	○

2) When CC-Link G4 module is in QnA mode

1. Connected module (Usable control name)	2. Relayed network	3. Relayed station CPU						
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QnACPU (ActCCG4QnA, ActMLCCG4QnA)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	×	○	×	×	×
	MELSECNET(II)	×	×	×	○	×	×	×
	Ethernet	×	×	×	○	×	×	×
	Computer link	×	×	×	○	×	×	×
	CC-Link	×	×	×	×	×	×	×

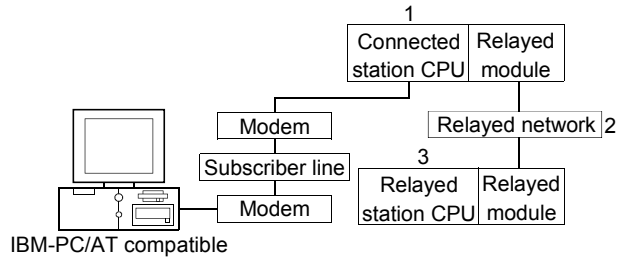
3) When CC-Link G4 module is in A mode

1. Connected module (Usable control name)	2. Relayed network	3. Relayed station CPU						
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QCPU (A mode), ACPU, Motion controller CPU (ActCCG4A, ActMLCCG4A)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	×	×	×	×	×
	MELSECNET(II)	×	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×	×

(5) Modem communication

(a) When A6TEL is used

1) Configuration



2) Target/non-target communication path

The following table indicates the communication paths to be retried at a time-out error occurrence.

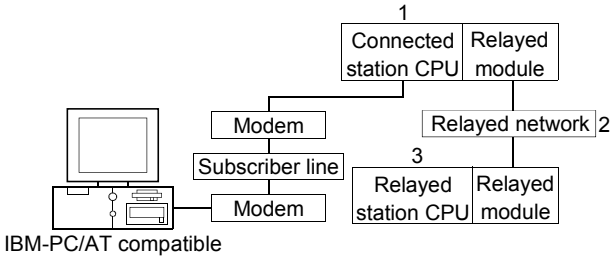
All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

Connected station		2. Relayed network	3. Relayed station CPU						
1. CPU	Connected module (Usable control name)		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
ACPU, Motion controller CPU	A6TEL, Q6TEL (A mode) (ActA6TEL)	CC-Link IE Controller Network	×	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×	×
		MELSECNET/10	×	×	○	×	○	×	○
		MELSECNET(II)	×	×	○	×	○	×	○
		Ethernet	×	×	×	×	×	×	×
		Computer link	×	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×	×

(b) When Q6TEL is used

1) Configuration



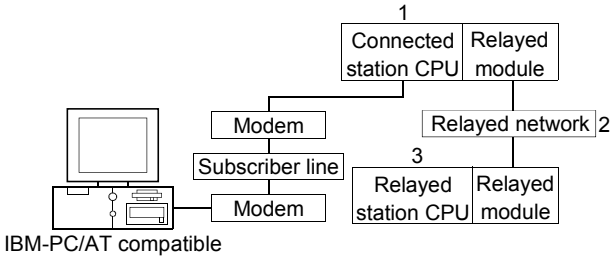
2) Target/non-target communication path

The following table indicates the communication paths to be retried at a time-out error occurrence.
All the connected station CPUs can be the targets.
Target/non-target the relayed CPUs are indicated by ○ (target) or × (non-target).

Connected station		2. Relayed network	3. Relayed station CPU						
1. CPU	Connected module (Usable control name)		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QnACPU	Q6TEL, (QnA mode) (ActQ6TEL)	CC-Link IE Controller Network	×	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×	×
		MELSECNET/10	×	×	×	○	×	×	×
		MELSECNET(II)	×	×	×	○	×	×	×
		Ethernet	×	×	×	○	×	×	×
		Computer link	×	×	×	○	×	×	×
		CC-Link	×	×	×	×	×	×	×

(c) When FXCPU is used

1) Configuration



2) Target/non-target communication path

The following table indicates the communication paths to be retried at a time-out error occurrence.

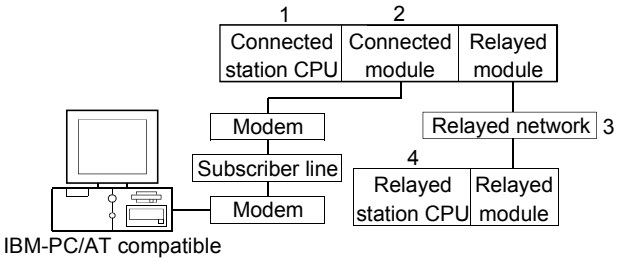
All the connected station CPUs can be the targets.

Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

1. Connected module (Usable control name)	2. Relayed network	3. Relayed station CPU						
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
FXCPU (ActFXCPUTEL)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	×	×	×	×	×
	MELSECNET(II)	×	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×	×

(d) When Q series-compatible C24 and QC24N is used

1) Configuration



2) Target/non-target communication path

The following table indicates the communication paths to be retried at a time-out error occurrence.

All the connected station CPUs can be the targets.

Target/non-target the relayed CPUs are indicated by ○ (target) or × (non-target).

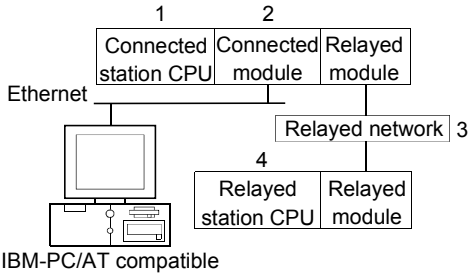
Connected station		3. Relayed network	4. Relayed station CPU						
1. CPU	2. Connected module (Usable control name)		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QCPU (Q mode)	Q series-compatible C24 (ActQJ71C24TEL)	CC-Link IE Controller Network	○	○	×	×	×	×	×
		MELSECNET/H	○	○	×	×	×	×	×
		MELSECNET/10	○	○	○	○	○	×	○
		MELSECNET(II)	×	×	×	×	×	×	×
		Ethernet	○	○	×	○	×	×	×
		Computer link	○	×	×	○	×	×	×
		CC-Link	○	×	○	○	○	×	○
		Multidrop (Independent mode)	○	×	×	○	×	×	×
		Multidrop (Synchronous mode)	○	×	×	×	×	×	×
QnACPU	QC24N (ActAJ71QC24TEL)	CC-Link IE Controller Network	×	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×	×
		MELSECNET/10	×	×	×	○	×	×	×
		MELSECNET(II)	×	×	×	○	×	×	×
		Ethernet	×	×	×	○	×	×	×
		Computer link	×	×	×	○	×	×	×
		CC-Link	×	×	×	○	×	×	×
		Multidrop (Independent mode)	×	×	×	○	×	×	×
		Multidrop (Synchronous mode)	×	×	×	○	×	×	×

Appendix 3.2 When retries are to be made at occurrence of receive data error

If a receive data error occurs during communication, send/receive retry processing may be repeated a maximum of three times within the ACT control.
At that time, it will take a maximum of three times longer period than the set time-out value until normal or abnormal termination of the function.
The following shows a communication path to be retried at a time-out error occurrence.

(1) Ethernet communication

(a) Configuration



(b) Target/non-target communication path

The following table indicates the communication paths to be retried at a time-out error occurrence.
All the connected station CPUs can be the targets.
Target/non-target the relayed CPUs are indicated by ○ (target) or × (non-target).

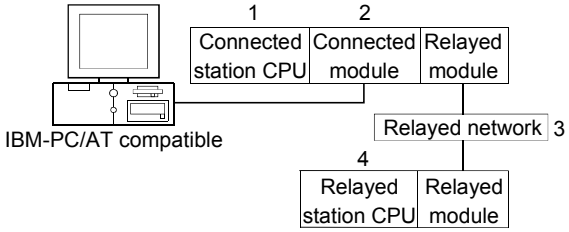
Connected station		3. Relayed network	4. Relayed station CPU						
1. CPU	2. Connected module (Usable control name)		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QCPU (Q mode)	Q series-compatible E71 Built-in Ethernet port QCPU (ActQJ71E71TCP, ActMLQJ71E71TCP, ActQNUDECPUTCP)	CC-Link IE Controller Network	○	○	×	×	×	×	×
		MELSECNET/H	○	○	×	×	×	×	×
		MELSECNET/10	○	○	○	○	○	×	○
		MELSECNET(II)	×	×	×	×	×	×	×
		Ethernet	○	○	×	○	×	×	×
		Computer link	○	×	×	×	×	×	×
		CC-Link	○	×	×	×	×	×	×
QCPU (Q mode)	Q series-compatible E71 Built-in Ethernet port QCPU (ActQJ71E71UDP, ActMLQJ71E71UDP, ActQNUDECPUUDP)	CC-Link IE Controller Network	○	○	×	×	×	×	×
		MELSECNET/H	○	○	×	×	×	×	×
		MELSECNET/10	○	○	○	○	○	×	○
		MELSECNET(II)	×	×	×	×	×	×	×
		Ethernet	○	○	×	○	×	×	×
		Computer link	○	×	×	×	×	×	×
		CC-Link	○	×	×	×	×	×	×
QnACPU	QE71 (ActAJ71QE71UDP, ActMLAJ71QE71UDP)	CC-Link IE Controller Network	×	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×	×
		MELSECNET/10	×	×	×	○	×	×	×
		MELSECNET(II)	×	×	×	×	×	×	×
		Ethernet	×	×	×	×	×	×	×
		Computer link	×	×	×	×	×	×	×
		CC-Link	×	×	×	×	×	×	×

Appendix 3.3 When time-out occurs at fixed time in ACT control

MX Component makes communication to check whether the personal computer and PLC system are connected correctly before the Open function is executed.
When making the above communication use, the fixed time-out period (1000ms to 4500ms) within the ACT control.
Note that if an error occurs during the above communication, an error other than the time-out error may occur.
The following shows a communication path where a time-out will occur at the fixed time within the ACT control.

(1) Computer link module communication

(a) Configuration



(b) Target/non-target communication path

The following table indicates the communication paths where a time-out will occur at the fixed time within the ACT control.
All the connected station CPUs can be the targets.
Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

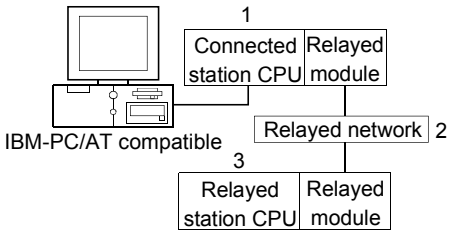
Connected station		3. Relayed network	4. Relayed station CPU						
1. CPU	2. Connected module (Usable control name)		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QCPU (Q mode)	Q series-compatible C24 (ActQJ71C24, ActMLQJ71C24)	CC-Link IE Controller Network	○	○	×	×	×	×	×
		MELSECNET/H	○	○	×	×	×	×	×
		MELSECNET/10	○	○	○	○	○	×	○
		MELSECNET(II)	×	×	×	×	×	×	×
		Ethernet	○	○	×	○	×	×	×
		Computer link	○	×	×	○	×	×	×
		CC-Link	○	×	○	○	○	○	○
		Multidrop (Independent mode)	○	×	×	○	×	×	×
		Multidrop (Synchronous mode)	○	×	×	×	×	×	×

(To next page)

Connected station		3. Relayed network	4. Relayed station CPU						
1. CPU	2. Connected module (Usable control name)		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QnACPU	QC24(N) (ActAJ71QC24, ActMLAJ71QC24)	CC-Link IE Controller Network	×	×	×	×	×	×	×
		MELSECNET/H	×	×	×	×	×	×	×
		MELSECNET/10	×	×	×	○	×	×	×
		MELSECNET(II)	×	×	×	○	×	×	×
		Ethernet	×	×	×	○	×	×	×
		Computer link	×	×	×	○	×	×	×
		CC-Link	×	×	×	○	×	×	×
		Multidrop (Independent mode)	×	×	×	○	×	×	×
		Multidrop (Synchronous mode)	×	×	×	○	×	×	×

(2) CPU COM communication

(a) Configuration



(b) Target/non-target communication path

The following table indicates the communication paths where a time-out will occur at the fixed time within the ACT control.
All the connected station CPUs can be the targets.
Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

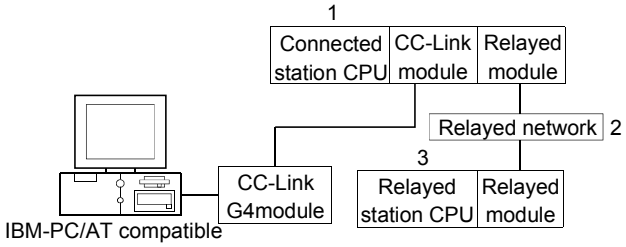
1. Connected module (Usable control name)	2. Relayed network	3. Relayed station CPU						
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QCPU (Q mode) (ActQCPUQ, ActMLQCPUQ)	CC-Link IE Controller Network	○	○	×	×	×	×	×
	MELSECNET/H	○	○	×	×	×	×	×
	MELSECNET/10	○	○	○	○	○	×	○
	MELSECNET(II)	×	×	×	×	×	×	×
	Ethernet	○	○	×	○	×	×	×
	Computer link	○	×	×	○	×	×	×
	CC-Link	○	×	○	○	○	○	○

(To next page)

1. Connected module (Usable control name)	2. Relayed network	3. Relayed station CPU						
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QCPU (A mode) (ActQCPUA, ActMLQCPUA)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	○	×	○	×	○
	MELSECNET(II)	×	×	○	×	○	×	○
	Ethernet	×	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×	×
QnACPU (ActQnACPU, ActMLQnACPU)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	×	○	×	×	×
	MELSECNET(II)	×	×	×	○	×	×	×
	Ethernet	×	×	×	○	×	×	×
	Computer link	×	×	×	○	×	×	×
	CC-Link	×	×	×	×	×	×	×
ACPU, Motion controller CPU (ActACPU, ActMLACPU)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	○	×	○	×	○
	MELSECNET(II)	×	×	○	×	○	×	○
	Ethernet	×	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×	×
FXCPU (ActFXCPU, ActMLFXCPU)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	×	×	×	×	×
	MELSECNET(II)	×	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×	×

(3) CC-Link G4 communication

(a) Configuration



(b) Target/non-target communication path

The following table indicates the communication paths where a time-out will occur at the fixed time within the ACT control.
All the connected station CPUs can be the targets.
Target/non-target relayed CPUs are indicated by ○ (target) or × (non-target).

1) When CC-Link G4-S3 module is in Q mode

1. Connected module (Usable control name)	2. Relayed network	3. Relayed station CPU						
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QCPU (Q mode) (ActCCG4Q, ActMLCCG4Q)	CC-Link IE Controller Network	○	○	×	×	×	×	×
	MELSECNET/H	○	○	×	×	×	×	×
	MELSECNET/10	○	○	○	○	○	×	○
	MELSECNET(II)	×	×	×	×	×	×	×
	Ethernet	○	○	×	○	×	×	×
	Computer link	○	×	×	○	×	×	×
	CC-Link	○	×	○	○	○	×	○

2) When CC-Link G4 module is in QnA mode

1. Connected module (Usable control name)	2. Relayed network	3. Relayed station CPU						
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QnACPU (ActCCG4QnA, ActMLCCG4QnA)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	×	○	×	×	×
	MELSECNET(II)	×	×	×	○	×	×	×
	Ethernet	×	×	×	○	×	×	×
	Computer link	×	×	×	○	×	×	×
	CC-Link	×	×	×	×	×	×	×

3) When CC-Link G4 module is in A mode

1. Connected module (Usable control name)	2. Relayed network	3. Relayed station CPU						
		QCPU (Q mode)	QSCPU	QCPU (A mode)	QnACPU	ACPU	FXCPU	Motion controller CPU
QCPU (A mode), ACPU, Motion controller CPU (ActCCG4A, ActMLCCG4A)	CC-Link IE Controller Network	×	×	×	×	×	×	×
	MELSECNET/H	×	×	×	×	×	×	×
	MELSECNET/10	×	×	×	×	×	×	×
	MELSECNET(II)	×	×	×	×	×	×	×
	Ethernet	×	×	×	×	×	×	×
	Computer link	×	×	×	×	×	×	×
	CC-Link	×	×	×	×	×	×	×

MEMO

APP - 23

WARRANTY

Please confirm the following product warranty details before using this product.

1. Gratis Warranty Term and Gratis Warranty Range

If any faults or defects (hereinafter "Failure") found to be the responsibility of Mitsubishi occurs during use of the product within the gratis warranty term, the product shall be repaired at no cost via the sales representative or Mitsubishi Service Company.
However, if repairs are required onsite at domestic or overseas location, expenses to send an engineer will be solely at the customer's discretion. Mitsubishi shall not be held responsible for any re-commissioning, maintenance, or testing on-site that involves replacement of the failed module.

[Gratis Warranty Term]

The gratis warranty term of the product shall be for one year after the date of purchase or delivery to a designated place.
Note that after manufacture and shipment from Mitsubishi, the maximum distribution period shall be six (6) months, and the longest gratis warranty term after manufacturing shall be eighteen (18) months. The gratis warranty term of repair parts shall not exceed the gratis warranty term before repairs.

[Gratis Warranty Range]

(1) The range shall be limited to normal use within the usage state, usage methods and usage environment, etc., which follow the conditions and precautions, etc., given in the instruction manual, user's manual and caution labels on the product.
(2) Even within the gratis warranty term, repairs shall be charged for in the following cases.
1. Failure occurring from inappropriate storage or handling, carelessness or negligence by the user. Failure caused by the user's hardware or software design.
2. Failure caused by unapproved modifications, etc., to the product by the user.
3. When the Mitsubishi product is assembled into a user's device, Failure that could have been avoided if functions or structures, judged as necessary in the legal safety measures the user's device is subject to or as necessary by industry standards, had been provided.
4. Failure that could have been avoided if consumable parts (battery, backlight, fuse, etc.) designated in the instruction manual had been correctly serviced or replaced.
5. Failure caused by external irresistible forces such as fires or abnormal voltages, and Failure caused by force majeure such as earthquakes, lightning, wind and water damage.
6. Failure caused by reasons unpredictable by scientific technology standards at time of shipment from Mitsubishi.
7. Any other failure found not to be the responsibility of Mitsubishi or that admitted not to be so by the user.

2. Onerous repair term after discontinuation of production

(1) Mitsubishi shall accept onerous product repairs for seven (7) years after production of the product is discontinued. Discontinuation of production shall be notified with Mitsubishi Technical Bulletins, etc.
(2) Product supply (including repair parts) is not available after production is discontinued.

3. Overseas service

Overseas, repairs shall be accepted by Mitsubishi's local overseas FA Center. Note that the repair conditions at each FA Center may differ.

4. Exclusion of loss in opportunity and secondary loss from warranty liability

Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation of damages caused by any cause found not to be the responsibility of Mitsubishi, loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products, special damages and secondary damages whether foreseeable or not , compensation for accidents, and compensation for damages to products other than Mitsubishi products, replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.

5. Changes in product specifications

The specifications given in the catalogs, manuals or technical documents are subject to change without prior notice.

6. Product application

(1) In using the Mitsubishi MELSEC programmable controller, the usage conditions shall be that the application will not lead to a major accident even if any problem or fault should occur in the programmable controller device, and that backup and fail-safe functions are systematically provided outside of the device for any problem or fault.
(2) The Mitsubishi programmable controller has been designed and manufactured for applications in general industries, etc. Thus, applications in which the public could be affected such as in nuclear power plants and other power plants operated by respective power companies, and applications in which a special quality assurance system is required, such as for Railway companies or Public service purposes shall be excluded from the programmable controller applications.
In addition, applications in which human life or property that could be greatly affected, such as in aircraft, medical applications, incineration and fuel devices, manned transportation, equipment for recreation and amusement, and safety devices, shall also be excluded from the programmable controller range of applications.
However, in certain cases, some applications may be possible, providing the user consults their local Mitsubishi representative outlining the special requirements of the project, and providing that all parties concerned agree to the special circumstances, solely at the users discretion.

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SH (NA)-080272-K

MX Component Version 3

Programming Manual

MODEL	MELS3-ACTE-P-E
MODEL CODE	13JF66
SH(NA)-080272-K(0812)MEE	

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